



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

Page # 1  
Invoice # 23270051-2013 -6  
Project # 23/27-0051  
Client # 59  
August 2, 2013

Invoice of Account with  
BARR ENGINEERING COMPANY

For professional services during the period of  
June 29, 2013 through July 26, 2013

**ENGINEERING**

TECHNICAL SERVICES

Calls/emails to or from the Commissioners, administrator, recording administrator, watershed communities and interested citizens; coordination with administrator regarding post-meeting tasks; provided MnDOT and Minneapolis staff information on the old Bassett Creek tunnel; provided follow-up data on the old tunnel; communications with Commissioner Hoshal regarding Medicine Lake water levels and potential dredging; internal discussions regarding Medicine Lake dredging; call from Golden Valley staff regarding Sweeney Lake odors.

Leonard J. Kremer, Principal Engineer/Scientist	
1.0 hours @ \$180.00 per hour.....	\$ 180.00
James P. Herbert, Principal Engineer/Scientist	
3.3 hours @ \$160.00 per hour.....	\$ 528.00
Karen L. Chandler, Engineer/Scientist/Specialist III	
3.6 hours @ \$150.00 per hour.....	\$ 540.00
Technicians/Administrative .....	\$ 380.00
<i>Subtotal, Technical Services .....</i>	<i>\$ 1,628.00</i>

PRELIMINARY SITE REVIEW/CORRESPONDENCE

Telephone conversations regarding proposed developments and review requirements; provided watershed hydraulic information, flood profiles and BCWMC development requirements to applicants; phone call with Medicine Lake resident about proposed filling in floodplain; phone call with Rehder & Associates regarding Golden Valley development; phone call from Oliver Engineering regarding Room & Board expansion in Golden Valley; phone call with Pierce Pini Associates regarding proposed project and application process; email to Anderson Engineering regarding preliminary review and comments for project in the watershed; correspondence with

Loucks & Associates regarding proposed project in Plymouth; correspondence with Minger Construction regarding appropriation permit; telephone conversation with Golden Valley staff regarding several new Bassett Creek projects; phone call with Kalio Engineering regarding Bassett Creek project requirements; phone call from GVCC staff regarding proposed bridge across Bassett Creek; provided Bassett Creek new tunnel information to property owner.

Leonard J. Kremer, Principal Engineer/Scientist	
1.7 hours @ \$180.00 per hour.....	\$ 306.00
James P. Herbert, Principal Engineer/Scientist	
5.8 hours @ \$160.00 per hour.....	\$ 928.00
<i>Subtotal, Preliminary Site Review/Correspondence .....</i>	<i>\$ 1,234.00</i>

#### MONTHLY MEETING PREPARATION

Reviewed draft BCWMC meeting minutes, agenda and packet materials and discussed comments with administrator; internal meetings, and communications/coordination with administrator and recording administrator regarding agenda, to-do list and meeting packet for July 2013 meeting; pre-meeting conference call with administrator; communications with administrator regarding actions for agenda items; reviewed/edited meeting notes and Commission meeting minutes and emailed to administrator; discussion regarding August meeting agenda items.

James P. Herbert, Principal Engineer/Scientist	
7.9 hours @ \$160.00 per hour.....	\$ 1,264.00
Karen L. Chandler, Engineer/Scientist/Specialist III	
11.2 hours @ \$150.00 per hour.....	\$ 1,680.00
Technicians/Administrative .....	\$ 85.00
<i>Subtotal, Monthly Meeting Preparation .....</i>	<i>\$ 3,029.00</i>

#### TAC MEETING PREPARATION

Communications with administrator and TAC members regarding July TAC agenda; prepared agenda and materials for July 29, 2013 TAC meeting and provided to TAC, commissioners, alternates, staff; preparation of draft P8 modeling memo and email to TAC for review; revised draft TAC P8 model memo incorporating TAC recommendations; distributed revised P8 memo to TAC for final review; conference call with Golden Valley staff regarding uses/capabilities of P8 model and modeling output; internal meeting regarding XP-SWMM model updates; preparation of XP-SWMM Modeling memo for TAC review; reviewed and edited administrator's draft TAC memo, preparation for TAC meeting.

James P. Herbert, Principal Engineer/Scientist	
7.5 hours @ \$160.00 per hour.....	\$ 1,200.00
Karen L. Chandler, Engineer/Scientist/Specialist III	
20.8 hours @ \$150.00 per hour .....	\$ 3,120.00
Gregory J. Wilson, Engineer/Scientist/Specialist III	
9.4 hours @ \$145.00 per hour.....	\$ 1,363.00
Rita W. Weaver, Engineer/Scientist/Specialist II	
10.0 hours @ \$120.00 per hour .....	\$ 1,200.00
<i>Subtotal, TAC Meeting Preparation.....</i>	<i>\$ 6,883.00</i>

***Subtotal Technical Services.....\$ 12,774.00***

**PLAT REVIEW**

Note: Projects in **Bold** have provided review fees to offset review costs. Projects not in Bold are either in a preliminary stage or do not require application fee.

**Wirth Lake 2010 Site Improvements**

Erosion control inspection.

Technicians/Administrative .....\$ 68.00

*Subtotal, Wirth Lake 2010 Site Improvements.....\$ 68.00*

**Hazelden Site Expansion**

Erosion control inspection.

Technicians/Administrative .....\$ 76.50

*Subtotal, Hazelden Site Expansion.....\$ 76.50*

**West Health Addition**

Erosion control inspection.

Technicians/Administrative .....\$ 76.50

*Subtotal, West Health Addition (2012-3).....\$ 76.50*

**Cornerstone Auto Resource**

Erosion control inspection.

Technicians/Administrative .....\$ 42.50

*Subtotal, Cornerstone Auto Resource .....\$ 42.50*

**228 Peninsula Road**

Correspondance with resident at 228 Peninsula Drive regarding variance procedure; phone conversation with Commissioner Hoshal.

James P. Herbert, Principal Engineer/Scientist  
1.0 hours @ \$160.00 per hour .....\$ 160.00

*Subtotal, 228 Peninsula Road.....\$ 160.00*

**CP Rail Bridge Replacement**

Erosion control inspection.

Technicians/Administrative .....\$ 42.50

*Subtotal, CP Rail Bridge Replacement.....\$ 42.50*

**The Hills of Plymouth Prof Bldg**

Erosion control inspection.

Technicians/Administrative .....	\$	68.00
<i>Subtotal, The Hills of Plymouth Prof Bldg .....</i>	<i>\$</i>	<i>68.00</i>

**Boone Ave Convenience Ctr and Retail**

Erosion control inspection.

Technicians/Administrative .....	\$	42.50
<i>Subtotal, Boone Ave Convenience Ctr and Retail .....</i>	<i>\$</i>	<i>42.50</i>

**Turtle Lake Drainage Improvement**

Erosion control inspection.

Technicians/Administrative .....	\$	42.50
<i>Subtotal, Turtle Lake Drainage Improvement .....</i>	<i>\$</i>	<i>42.50</i>

**Sunset Hill Element 2013 Bldg Add'n Reno**

Erosion control inspection.

Technicians/Administrative .....	\$	76.50
<i>Subtotal, Sunset Hill Element 2013 Bldg Add'n Reno .....</i>	<i>\$</i>	<i>76.50</i>

**Eliot Park Apartments**

Erosion control inspection.

Technicians/Administrative .....	\$	76.50
<i>Subtotal, Eliot Park Apartments .....</i>	<i>\$</i>	<i>76.50</i>

**Colonnade Apartments**

Erosion control inspection.

Technicians/Administrative .....	\$	59.50
<i>Subtotal, Colonnade Apartments .....</i>	<i>\$</i>	<i>59.50</i>

**Greenwood Elementary School**

Erosion control inspection.

Technicians/Administrative .....	\$	68.00
<i>Subtotal, Greenwood Elementary School .....</i>	<i>\$</i>	<i>68.00</i>

**Golden Valley 2013 PMP**

Erosion control inspection.

Technicians/Administrative .....	\$	68.00
<i>Subtotal, Golden Valley 2013 PMP .....</i>	<i>\$</i>	<i>68.00</i>

**The Tiburon (2013-1)**

Erosion control inspection.

Technicians/Administrative .....\$ 42.50

*Subtotal, The Tiburon (2013-1)* .....\$ 42.50

**McDonald's at Crossroads Commons (2013-2)**

Erosion control inspection.

Technicians/Administrative .....\$ 42.50

*Subtotal, McDonald's at Crossroads Commons (2013-2)*.....\$ 42.50

**Motorwerks MINI (2013-3)**

Erosion control inspection.

Technicians/Administrative .....\$ 58.50

*Subtotal, Motorwerks MINI (2013-3)*.....\$ 58.50

**4900 Triton Drive (2013-4)**

Erosion control inspection.

Technicians/Administrative .....\$ 68.00

*Subtotal, 4900 Triton Drive (2013-4)*.....\$ 68.00

**Trail Bridge over CSAH 61 (2013-5)**

Erosion control inspection.

Technicians/Administrative .....\$ 59.50

*Subtotal, Trail Bridge over CSAH 61 (2013-5)* .....\$ 59.50

**Hennepin County 911 Facility (2013-7)**

Erosion control inspection.

Technicians/Administrative .....\$ 76.50

*Subtotal, Hennepin County 911 Facility* .....\$ 76.50

**Kohl's at Rockford Plaza (2013-8)**

Erosion control inspection.

Technicians/Administrative .....\$ 25.50

*Subtotal, Kohl's at Rockford Plaza* .....\$ 25.50

**Sunshine Factory (2013-10)**

Erosion control inspection.

Technicians/Administrative .....	\$	42.50
<i>Subtotal, Sunshine Factory .....</i>	<i>\$</i>	<i>42.50</i>

#### **HOM Furniture Dock Expansion (2013-11)**

Erosion control inspection.

Technicians/Administrative .....	\$	42.50
<i>Subtotal, HOM Furniture Dock Expansion .....</i>	<i>\$</i>	<i>42.50</i>

#### **Plymouth Yard Waste Site Improvements (2013-13)**

Erosion control inspection.

Technicians/Administrative .....	\$	34.00
<i>Subtotal, Plymouth Yard Waste Site Improvements .....</i>	<i>\$</i>	<i>34.00</i>

#### **Arcata Apartments (2013-14)**

Correspondence with applicant and city staff; reviewed revised grading, drainage and erosion control plan; prepared approval letter to City of Golden Valley.

Rita W. Weaver, Engineer/Scientist/Specialist II		
4.3 hours @ \$120.00 per hour .....	\$	516.00
<i>Subtotal, Arcata Apartments (2013-14) .....</i>	<i>\$</i>	<i>516.00</i>

#### **Ridgedale Mall Macy's Expansion (2013-15)**

Erosion control inspection.

Technicians/Administrative .....	\$	42.50
<i>Subtotal, Ridgedale Mall Macy's Expansion .....</i>	<i>\$</i>	<i>42.50</i>

#### **West Health TCU (2013-16)**

Correspondence with applicant and city staff; reviewed revised grading, drainage and erosion control plan; prepared approval letter to City of Plymouth.

Rita W. Weaver, Engineer/Scientist/Specialist II		
1.2 hours @ \$120.00 per hour .....	\$	144.00
Technicians/Administrative .....	\$	42.50
<i>Subtotal, West Health TCU .....</i>	<i>\$</i>	<i>186.50</i>

#### **Tile Shop Corp Remodel (2013-19)**

Coordination with applicant and addressed questions regarding site/pond requirements for project in the City of Plymouth.

Rita W. Weaver, Engineer/Scientist/Specialist II		
0.6 hours @ \$120.00 per hour .....	\$	72.00
Technicians/Administrative .....	\$	34.00
<i>Subtotal, Tile Shop Corp Remodel (2013-19) .....</i>	<i>\$</i>	<i>106.00</i>

**MnDOT Ply Truck Station Site (2013-20)**

Coordination with applicant and City staff; reviewed grading, drainage and erosion control plans; prepared letter to City of Plymouth.

Rita W. Weaver, Engineer/Scientist/Specialist II	
2.5 hours @ \$120.00 per hour .....	\$ 300.00
Technicians/Administrative .....	<u>\$ 40.00</u>
<i>Subtotal, MnDOT Ply Truck Station Site (2013-20) .....</i>	<i>\$ 340.00</i>

**Theodore Wirth GC Ski Trail (2013-21)**

Coordination with applicant and City staff; reviewed site grading; prepared letter of recommendation to City of Golden Valley.

James P. Herbert, Principal Engineer/Scientist	
3.3 hours @ \$160.00 per hour .....	\$ 528.00
Technicians/Administrative .....	<u>\$ 40.00</u>
<i>Subtotal, Theodore Wirth GC Ski Trail (2013-21).....</i>	<i>\$ 568.00</i>

**Golden Valley Lutheran Church Addition**

Coordination with applicant and City staff; preliminary review of grading, drainage and erosion control plans.

James P. Herbert, Principal Engineer/Scientist	
1.7 hours @ \$160.00 per hour .....	\$ 272.00
Technicians/Administrative .....	<u>\$ 48.50</u>
<i>Subtotal, Golden Valley Lutheran Church Addition .....</i>	<i>\$ 320.50</i>

**2600 Niagara Lane (2013-23)**

Coordination with applicant and City staff; preliminary review of grading, drainage and erosion control plans.

James P. Herbert, Principal Engineer/Scientist	
0.7 hours @ \$160.00 per hour .....	\$ 112.00
Technicians/Administrative .....	<u>\$ 48.50</u>
<i>Subtotal, 2600 Niagara Lane (2013-23).....</i>	<i>\$ 160.50</i>

**Culvers Restaurant (2013-24)**

Coordination with applicant and City staff; preliminary review of grading, drainage and erosion control plans.

James P. Herbert, Principal Engineer/Scientist	
0.4 hours @ \$160.00 per hour .....	\$ 64.00
Technicians/Administrative .....	<u>\$ 48.50</u>
<i>Subtotal, Culvers Restaurant (2013-24).....</i>	<i>\$ 112.50</i>

**W Medicine Lk Dr Retaining Wall (2013-25)**

Coordination with applicant, City staff and administrator; preliminary review of grading, drainage and erosion control plans for project in the City of Plymouth.

James P. Herbert, Principal Engineer/Scientist	
1.4 hours @ \$160.00 per hour .....	\$ 224.00
<i>Subtotal, W Medicine Lk Dr Retaining Wall (2013-25) .....</i>	<i>\$ 224.00</i>

#### **TH 394 Ent Ramp at Ridgedale (2013-26)**

Correspondence with applicant and City staff for project located in City of Minnetonka.

James P. Herbert, Principal Engineer/Scientist	
0.6 hours @ \$160.00 per hour .....	\$ 96.00
<i>Subtotal, TH 394 Ent Ramp at Ridgedale (2013-26).....</i>	<i>\$ 96.00</i>

#### **1400 Spring Valley Road (2013-27)**

Coordination with applicant and City staff; preliminary review of grading, drainage and erosion control plans.

James P. Herbert, Principal Engineer/Scientist	
0.5 hours @ \$160.00 per hour .....	\$ 80.00
<i>Subtotal, 1400 Spring Valley Road (2013-27).....</i>	<i>\$ 80.00</i>

***Subtotal Plat Review.....\$ 4,212.00***

#### **COMMISSION AND TAC MEETINGS**

Attended July 1 Steering Committee meeting; attended July 18 Commission meeting and goal-setting workshop; attended July 22 Steering Committee meeting.

Karen L. Chandler, Engineer/Scientist/Specialist III	
9.6 hours @ \$150.00 per hour .....	\$ 1,440.00
Expenses (Mileage) .....	\$ 5.09
<i>Subtotal, Commission Meetings .....</i>	<i>\$ 1,445.09</i>

#### **WATER QUALITY MONITORING**

Performed water quality sampling for 2013 monitoring program including Northwood Lake, and North and South Rice Ponds; analytical result entry and verification in EQuIS; responded to data request from MPRB regarding Wirth Lake; prepared maps from June aquatic plant surveys at Northwood Lake and North and South Rice Pond.

Henry M. Runke, Principal Engineer/Scientist	
0.5 hours @ \$170.00 per hour .....	\$ 85.00
Gregory J. Wilson, Engineer/Scientist/Specialist III	
1.0 hours @ \$145.00 per hour.....	\$ 145.00
Shelly M. Thompson, Engineer/Scientist/Specialist I	
0.7 hours @ \$75.00 per hour .....	\$ 52.50



Technicians/Administrative .....	\$ 982.00
Expenses (Braun Intertec/mileage/2WD vehicle/turbidimeter/canoe/ water quality meter).....	\$ 679.16
<i>Subtotal, Water Quality Monitoring.....</i>	<i>\$ 1,943.66</i>

#### WATER QUANTITY

Measured and reviewed lake level elevations as part of the lake-gauging program.

Technicians/Administrative .....	\$ 323.00
Expenses (Mileage/2WD vehicle).....	\$ 102.63
<i>Subtotal, Water Quantity .....</i>	<i>\$ 425.63</i>

#### WATERSHED INSPECTION

Performed erosion control inspections; prepared letter of recommendations and distributed to each city.

James P. Herbert, Principal Engineer/Scientist 1.0 hours @ \$160.00 per hour.....	\$ 160.00
Technicians/Administrative .....	\$ 595.00
Expenses (Mileage/2WD vehicle).....	\$ 166.84
<i>Subtotal, Watershed Inspection.....</i>	<i>\$ 921.84</i>

**TOTAL ENGINEERING .....\$ 21,722.22**

<b>SECRETARIAL SERVICES</b>
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#### SECRETARIAL SERVICES EXPENSES

Administrative expenses requested by Amy Herbert including: copies, color copies for meeting packet; postage; copied and assembled packet materials for July 2013 meeting.

Technicians/Administrative .....	\$ 8.00
Expenses (B&W/color copies/postage) .....	\$ 236.64

**TOTAL SECRETARIAL SERVICES EXPENSES.....\$ 244.64**

<b>PLANNING</b>
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#### NEXT GENERATION PLAN

Coordination with administrator; reviewed groundwater goals, strategies and policies; prepared for Steering Committee meeting; reviewed/edited draft goals; coordination with administrator regarding next steps for the planning process; reviewed administrator's comments on draft goals; prepared for goal setting Plan Steering Committee meeting; phone call with Linda Loomis regarding meeting facilitation; goal revisions; reviewed water quality data and summarized status; discussions regarding

plan outline/format.

Karen L. Chandler, Engineer/Scientist/Specialist III 6.1 hours @ \$150.00 per hour.....	\$ 915.00
Sterling G. Williams, Engineer/Scientist/Specialist II 19.9 hours @ \$110.00 per hour.....	\$ 2,189.00
Jonathon T. Carter, Engineer/Scientist/Specialist II 1.7 hours @ \$115.00 per hour.....	\$ 195.50
Candice M. Kantor, Engineer/Scientist/Specialist I 12.0 hours @ \$80.00 per hour.....	\$ 960.00
<i>Subtotal, Next Generation Plan .....</i>	<i>\$ 4,259.50</i>
<b>TOTAL PLANNING .....</b>	<b>\$ 4,259.50</b>

<b>ANNUAL REPORT</b>
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<b>TOTAL ANNUAL REPORT.....</b>	<b>\$ 0.00</b>
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<b>PUBLIC COMMUNICATIONS</b>
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<b>TOTAL PUBLIC COMMUNICATIONS .....</b>	<b>\$ 0.00</b>
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<b>WEBSITE</b>
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<b>TOTAL WEBSITE .....</b>	<b>\$ 0.00</b>
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<b>WATERSHED OUTLET MONITORING PROGRAM (WOMP)</b>
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<b>TOTAL WOMP .....</b>	<b>\$ 0.00</b>
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<b>CAPITAL IMPROVEMENT PROJECTS (Funded through tax levy)</b>
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FOUR SEASON MALL POND NB-07 (NL-2)

Correspondence regarding submittal.

James P. Herbert, Principal Engineer/Scientist 0.4 hours @ \$160.00 per hour.....	\$ 64.00
<i>Subtotal, Four Season Mall Pond NB-07 (NL-2).....</i>	<i>\$ 64.00</i>

WIRTH LAKE OUTLET MODIFICATION (WTH-4)

Updated eLINK grant tracking spreadsheet; internal meeting regarding grant and reimbursement status.

Karen L. Chandler, Engineer/Scientist/Specialist III		
0.5 hours @ \$150.00 per hour .....	\$	75.00
Amy R. Mikus, Engineer/Scientist/Specialist I		
5.0 hours @ \$85.00 per hour .....	\$	425.00
<i>Subtotal, Wirth Lake Outlet Modification (WTH-4).....</i>	<i>\$</i>	<i>500.00</i>

#### TWIN LAKE ALUM TREATMENT PROJECT (TW-2)

Coordination with Administrator; coordination with DNR fisheries and prepared recommended fish survey protocol at Twin Lake; internal discussions regarding Twin Lake fisheries survey; phone conversation with Administrator regarding fisheries survey protocol.

James P. Herbert, Principal Engineer/Scientist		
1.1 hours @ \$160.00 per hour.....	\$	176.00
Karen L. Chandler, Engineer/Scientist/Specialist III		
4.1 hours @ \$150.00 per hour .....	\$	615.00
Ronald M. Koth, Engineer/Scientist/Specialist II		
1.5 hours @ \$110.00 per hour .....	\$	165.00
<i>Subtotal, Twin Lake Alum Treatment Project (TW-2).....</i>	<i>\$</i>	<i>956.00</i>

#### SCHAPER POND ENHANCEMENT

Communications with MPCA regarding its comments and proposed major plan amendment.

Leonard J. Kremer, Principal Engineer/Scientist		
4.3 hours @ \$180.00 per hour.....	\$	774.00
<i>Subtotal, Schaper Pond Enhancement.....</i>	<i>\$</i>	<i>774.00</i>

**TOTAL CAPITAL IMP PROJECTS (Tax Levy) .....\$ 2,294.00**

<b>CAPITAL IMPROVEMENT PROJECTS (Funded through Flood Control Project Long-term Maintenance Funds)</b>
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<b>TOTAL CAPITAL IMPROVEMENT PROJECTS (Maintenance Funds) .....</b>	<b>\$</b>	<b>0.00</b>
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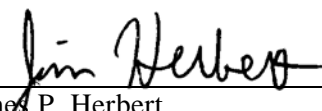
<b>TMDL STUDIES</b>
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<b>TOTAL TMDL STUDIES .....</b>	<b>\$</b>	<b>0.00</b>
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<b>SUMMARY TOTALS</b>
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<b>Total Engineering .....</b>	<b>\$ 21,722.22</b>
<b>Total Secretarial Services Expenses.....</b>	<b>\$ 244.64</b>
<b>Total Planning .....</b>	<b>\$ 4,259.50</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>\$ 2,294.00</b>
<b>Total Capital Improvement Projects (Maintenance Funds).....</b>	<b>\$ 0.00</b>
<b>Total TMDL Studies.....</b>	<b>\$ 0.00</b>
<b>TOTAL PAYABLE .....</b>	<b>\$ 28,520.36</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