This page must be filled out monthly by the Consultant and forwarded to the Agreement Administrator with the monthly invoice. If necessary, attach additional sheets for continuation.

<table>
<thead>
<tr>
<th>Key Number</th>
<th>Project Number</th>
<th>Project Name</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>ITD RP 279</td>
<td>ITD-Pavement Temperature</td>
<td>4/9/2019</td>
</tr>
</tbody>
</table>

**Agreement Administrator**
- Trek Pallister

**Consultant's Name**
- Emad Kassem

**Prompt Payment To Subconsultant(s) Verified**
- Yes

**Report/Billing Period (From and To)**
- 3/1/2019-3/31/2019

**Authorization Number**
- Invoice Number
- Invoice #2

**Describe Work Accomplished During the Month**
- The research team continue working on analyzing the temperature data collected and provided by ITD. We obtained more than 293 data points. We are currently assessing the correlation between the measured mid-depth pavement temperature and the ones predicted using BELLS2 and BELLS3 models.
- The research team started working on Task 1 “Literature review” to review previous studies and models for mid-depth pavement temperature.

**Summarize Work Completed to Date (Milestones Completed and Dates)**
- Please see attached GANTT chart.

**List Information Required from ITD to Avoid Delays**

**List Changes in Scope or Complexity that Requires a Supplemental Agreement or Time Adjustments**

**Printed Name**
- Emad Kassem

**Title**
- Principal Investigator

**Consultant's Signature**
Status Report  This page must be completed by the Agreement Administrator

A completed status report must accompany all Agreement invoices recommended for payment. The requested percentage of progress measurements for this report/billing period are required.

<table>
<thead>
<tr>
<th>Key Number</th>
<th>Program Number</th>
<th>Progress Report Number</th>
<th>Agreement Number</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>3</td>
<td>UI-19-02</td>
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</table>

<table>
<thead>
<tr>
<th>Agreement Time</th>
<th>Time Passed</th>
<th>Percent of Agreement Time Elapsed</th>
<th>Percent of Work Completed</th>
</tr>
</thead>
<tbody>
<tr>
<td>18</td>
<td>3</td>
<td>16.67%</td>
<td>13.5%</td>
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</table>

<table>
<thead>
<tr>
<th>Original Agreement Amount</th>
<th>Supplemental(s)</th>
<th>Current Agreement Amount</th>
<th>Payments (including this Payment)</th>
<th>Percent of Agreement Dollars Paid</th>
</tr>
</thead>
<tbody>
<tr>
<td>$50,000.00</td>
<td>$0.00</td>
<td>$50,000.00</td>
<td>$3,029.30</td>
<td>06.06%</td>
</tr>
</tbody>
</table>

Prompt Payment To Subconsultant(s) Verified

- Yes
- No

Fixed Fee

- This Invoice
- To Date
- Negotiated

If There is a Significant Variance Between the Percentages, Please Explain

Consultant Invoice Number

- Invoice #2

This Payment Amount

- $1,514.65

Report Reviewed By

Review Date

Consultant Performance  To Be Completed Monthly by the Agreement Administrator

Work planned for this period was completed

- Yes
- No

Quality of work was completed satisfactory

- Yes
- No

Discussed performance with Consultant

- Yes
- No

Explain

Performance: Describe the Consultants performance during this period

- Progress Payment: I certify that the Agreement provisions have been reviewed, the invoice amount checked, progress is substantiated, significant material expenses have support documentation (receipts), and the costs billed are project related and represent the work accomplished. I hereby approve the progress estimate for payment.

- Final Payment: I certify that all work under the terms of the Agreement has been satisfactorily completed, any capital assets acquired have been delivered or value received, an affidavit of indebtedness received, and the project reviewed or audited and costs verified for work performed. I hereby approve final payment under the Agreement.
<table>
<thead>
<tr>
<th>Task 1</th>
<th>Literature Review</th>
<th>Yr 2019</th>
<th>Yr 2020</th>
</tr>
</thead>
<tbody>
<tr>
<td>Task 2</td>
<td>Review ITD Measured Mid-Depth Pavement Temperature Data</td>
<td>15% 20% 35%</td>
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</tr>
<tr>
<td>Task 3</td>
<td>Validate Existing Mid-Depth Pavement Temperature Models</td>
<td>30% 50%</td>
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</tr>
<tr>
<td>Task 4</td>
<td>Develop Excel–Based Utility</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Task 5</td>
<td>Develop Recommendations/Guideline on Revised Practice for Pavement Temperature Measurement</td>
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<tr>
<td>Task 6</td>
<td>Prepare Final Report</td>
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</tr>
</tbody>
</table>

**Deliverables No.**

1 2 3 4 5, 6