



# Professional Agreement Invoice and Progress Report

ITD 0771 (Rev. 01-17)

Idaho Transportation Department

itd.idaho.gov

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.

Key Number	Project Number ITD RP268	Project Name ITD Pavement ME Design	Date 3/13/2019
Agreement Administrator Mike Santi		Progress Report Number EN1818-KLK585-18	Agreement Number UI-17-04
Consultant's Name			Report/Billing Period (From and To) 2/1/19-2/28/19
Prompt Payment To Subconsultant(s) Verified <input type="checkbox"/> Yes <input type="checkbox"/> No		Authorization Number	Invoice Number 18
Describe Work Accomplished During the Month (List Major Activities that were in progress during this period and estimate the remaining time for each.) Work progress during this month (Feb 2019) included: <ul style="list-style-type: none"> <li>- Continue the calibration of the faulting and transverse cracking models.</li> <li>- Complete the calibration factors for rutting and bottom-up cracking models for the flexible pavements</li> <li>- Review the calibration process with Stat consultant.</li> <li>- Working on the draft report.</li> </ul>			
Summarize Work Completed to Date (Milestones Completed and Dates) (List Major Activities that were completed, including completion dates.) Please refer to attached Gantt Chart. Tasks #1, #2, #3 and #4 are completed. Deliverables #1, #2 and #3 are submitted. Work now is focused on Tasks #5 and #6 to develop the Idaho Calibration Factors. Overall Work Progress is estimated by about 70%  Remark: The original Gantt chart indicates that Tasks 5 and 6 were scheduled to complete by Dec 2018 and Feb 2019 respectively. However there were earlier delays in the start of these two tasks due to lack of sites and data acquisition. Consequently, the two tasks were delayed and completion dates are extended about three months. A modified Gantt chart is included.			
List Information Required from ITD to Avoid Delays			
List Changes in Scope or Complexity that Requires a Supplemental Agreement or Time Adjustments			
Printed Name Fouad Bayomy		Title Principal Investigator	Consultant's Signature <i>Fouad Bayomy</i> <i>Barb Smith</i>

Distribution: DRI (Original) - Project File

Copy - Prime Consultant

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## 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.

Key Number	Program Number ITD RP268	Progress Report Number 18	Agreement Number UI-17-04
Agreement Time 24 months	Time Passed 18	Percent of Agreement Time Elapsed 75.00%	Percent of Work Completed 70%
Original Agreement Amount \$169,996.79	Supplemental(s) \$0.00	Current Agreement Amount \$169,996.79	Payments (Including this Payment) \$97,799.71
Percent of Agreement Dollars Paid 57.53%			
Prompt Payment To Subconsultant(s) Verified <input type="checkbox"/> Yes <input type="checkbox"/> No	Fixed Fee	This Invoice \$	To Date \$
Negotiated \$			
If There is a Significant Variance Between the Percentages, Please Explain			
Consultant Invoice Number 18		This Payment Amount \$7,612.60	
Report Reviewed By			Review Date

## Consultant Performance To Be Completed Monthly by the Agreement Administrator

Work planned for this period was completed <input type="checkbox"/> Yes <input type="checkbox"/> No	Quality of work was completed satisfactory <input type="checkbox"/> Yes <input type="checkbox"/> No	Discussed performance with Consultant <input type="checkbox"/> Yes <input type="checkbox"/> 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.

Agreement Administrator's Signature	Date	Second (Independent) Reviewer's Signature
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## RP 268 (KLK 585)

### Calibration of the AASHTOWare Pavement ME Design Software for PCC Pavements in Idaho

Task No	Task Description	Year	2018												2019										
		Month	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul
		Elapsed Month	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Task 1	Review of the ME software distress prediction models for Rigid Pavements		20%	20%	15%	30%	10%																		
Task 2	Evaluate the inputs required for the design of new rigid pavement systems				15%	50%	15%	5%	5%	5%								10%							
Task 3	Identify and select the pavement sections for the calibration						15%	50%	10%	5%	5%	5%	10%		10%	5%									
Task 4	Develop a performance database for the ME calibration for the selected sections								5%		5%	15%	10%	10%	5%		30%	20%							
Task 5	Run the software with the assembled database											5%	5%	10%	20%	15%	5%	10%	15%	10%					
Task 6	Develop Idaho calibration factors																		25%	25%					
Task 7	Develop Implementation Guidelines and Training Workshop																	5%	5%						
Task 8	Final Report Preparation and Submittal																								
a	Submit report outline to ITD for review																								
b	Meet with ITD Project Manager and Research Program Manager to discuss outline																								
c	Send draft to peer reviewer and make necessary changes																								
d	Send draft to report editor and make necessary changes																								
e	Submit draft of required output to ITD/FHWA for review																								
f	ITD/FHWA review of draft completed (due 30 days after submission of draft)																								
g	Final output due to ITD (due 30 days after submission of review draft)																								
<b>Deliverables</b>							#1	Submitted	#2	Submitted	#3	Submitted	#4		#5		#6								