Professional Agreement Invoice and Progress Report

Idaho Transportation Department

ITD 0771 (Rev. 01-17)

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	Project Name	Date
	ITD RP 235	ITD AASHTOWare Pavement ME Design	3/6/2018

Agreement Administrator	Progress Report Number	Agreement Number
Mike Santi	KLK572-34	UI-15-04

Consultant's Name	Report/Billing Period (From and To)
	2/1/18-2/28/18

Prompt Payment To Subconsultant(s) Verified	Authorization Number	Invoice Number
☐ Yes ☐ No		Invoice 30

Describe Work Accomplished During the Month (List Major Activities that were in progress during this period and estimate the remaining time for each.)

Work during the Month of February 2018 included:

- Continue review of the developed calibration factors for all models.
- Continue working on the first draft of the final report.
- Developed examples to be used for the training workshop to be held end of April.
- Work on preparing deliverable #2

Summarize Work Completed to Date (Milestones Completed and Dates) (List Major Activities that were completed, including completion dates.)

Please refer to the attached Gantt Chart.

Most of the project research work is almost complete. The research is focused on preparation of the final report and the training workshop.

Work progress so far is estimated by about 95% complete.

List Information Required from ITD to Avoid Delays

None

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

None

Printed Name	Title	Consultant's Signature
Fouad Bayomy	Principal Investigator	*Fouad Bayomy*

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		Progress Report Number 34	Agreement Number UI-15-04

Agreement Time 36 months	Time Passed 34	Percent of Agreement Time Elapsed 94.44%	Percent of Work Completed 95%

Original Agreement Amount $338,036.53	Supplemental(s) $0.00	Current Agreement Amount $338,036.53	Payments (Including this Payment) $294,127.50	Percent of Agreement Dollars Paid 87.01%

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 30	This Payment Amount $10,088.74

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.

Agreement Administrator's Signature	Date	Second (Independent) Reviewer's Signature

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RP 235 (KLK 572)

Calibration of the AASHTOWare Pavement ME Design Performance Models for Flexible Pavements in Idaho - Time Schedule (Revised May 2016)

Year		2015								2016												2017												2018			
Month		May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr
Task No	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	24	25	26	27	28	29	30	31	32	33	34	35	36
Task 1	Review of the ME software distress prediction models for Flexible Pavements	5%	5%	5%	10%				15%	15%	20%							10%				5%															
Task 2	Evaluate the design inputs required for the ME Software				10%			10%	5%	20%	20%		10%	10%	5%			10%																			
Task 3	Identify and select the pavement sections for the calibration		5%	5%	5%	10%	10%		10%	10%	5%	3%	5%	5%	17%	5%		10%																			
Task 4	Conduct Creep Compliance and IDT Testing		5%			5%	5%	5%		5%		2%	2%	15%	15%	20%	25%	25%																			
Task 5	Develop a performance database for the ME calibration for the selected sections													7%	7%	10%	25%	10%		15%		8%	5%	5%	5%	5%	10%	5%									
Task 6	Run the software with the assembled database																	25%	5%	5%	5%	10%	15%	5%	5%	5%	5%	5%	5%	5%	5%	10%	10%				
Task 7	Development and Validation of Idaho calibration factors																	10%			10%	5%	5%	5%	5%	15%	5%	5%	5%	15%	10%	20%	10%				
Task 8	Summary of findings and recommendations																												5%	5%	10%	10%	10%	20%			
Task 9	Prepare and conduct training workshop																														10%	10%	10%	10%			
Task 10	*Final Report*																																				
a	Submit Outline for ITD to Review																																	100%			
b	Meet ITD to discuss outline																																				
c	Prepare report and send draft to peer reviewer																																		50%		
d	Send draft to report editor																															▓					
e	Submit draft of required output																														▓						
f	ITD / FHWA Review																																			▓	
g	Final Report due to ITD																																				10

Note (Task 4/Task 5 span, Sep 2016): This Task will be carried further once more projects identified by districts

Indicates Submittal # to ITD (shown in green)