



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 1/15/2019
Agreement Administrator Mike Santi		Progress Report Number EN1818-KLK585-16	Agreement Number UI-17-04
Consultant's Name			Report/Billing Period (From and To) 12/1/18-12/31/18
Prompt Payment To Subconsultant(s) Verified <input type="checkbox"/> Yes <input type="checkbox"/> No		Authorization Number	Invoice Number 16
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 (Dec 2018) included: <ul style="list-style-type: none"> - Completing the performance data for all projects received from ITD. Performance Database is prepared in an Excel file and is attached to this report as Deliverable #3. - Continue analyzing field data for projects from I-90 (D1), I-84 (D3), I-184 (D3), I-84 (D4). - Continue analyzing traffic data from WIM files. We are still working with Roadway Data Manager to obtain WIM data for recent years. - Conducting pilot analysis to determine the actual ESALs as calculated from actual WIM data in comparison to those provided in the standard ITD traffic report. Significant difference was observed. - Communication with ITD and American Geotechnique to organize Workshop #2 for ME training. 			
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 and #2 are submitted. Deliverable #3 (Performance database) is submitted along with this report. Work now is focused on Tasks #5 and #6 to develop the Idaho Calibration Factors. Overall Work Progress is estimated by about 57%			
List Information Required from ITD to Avoid Delays These remarks are for ITD info, and do not require actions from ITD: <ul style="list-style-type: none"> - The ME software has been updated three times. The latest version V2.5.3 is now in place and running. We had encountered some bugs with the climate module. We worked with ARA and ITD over the past 3 month on this issue and it is now fixed. - Even though V2.5.3 is running smoothly now, it still have a problem in the top-down cracking model. It is expected that this model issue will be fixed in V2.5.4. - Recent communication with ARA indicated that the release of version V2.5.4 has been pushed to June 2019, and therefore, all work in this project will stick to the current version V2.5.3. 			
List Changes in Scope or Complexity that Requires a Supplemental Agreement or Time Adjustments			
Printed Name Fouad Bayomy		Title Principal Investigator	Consultant's Signature

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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 16	Agreement Number UI-17-04
Agreement Time 23 months	Time Passed 16	Percent of Agreement Time Elapsed 69.57%	Percent of Work Completed 57%
Original Agreement Amount \$169,996.79	Supplemental(s) \$0.00	Current Agreement Amount \$169,996.79	Payments (Including this Payment) \$77,478.87
Percent of Agreement Dollars Paid 45.58%			
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 16		This Payment Amount \$8,011.19	
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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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%	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%							
Task 6	Develop Idaho calibration factors																								
Task 7	Develop Implementation Guidelines and Training Workshop																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)																								
Deliverables							#1	Submitted			#2	Submitted			#3	Submitted			#4		#5		#6		