Professional Agreement Invoice and Progress Report



Idaho Transportation Department

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 AASHTOWa | are Pavement ME Design | 10/12/2016 | | | | | | | |
| Agreement Admini | strator | | Progress Re | port Number | Agreement Number | | | | | | | | |
| Ned Parrish | | | KLK572-1 | 7 | UI-15-04 | | | | | | | | |
| Consultant | | Report/Billing Period (| Report/Billing Period (From and To) | | | | | | | | | | |
| | | | 9/1/16-9/30/16 | | | | | | | | | | |
| Certification of Pay | ment Submitted | Certification Date | PSA N | Number | Invoice Number | | | | | | | | |
| | No | | | | Invoice 13 | | | | | | | | |
| Description of Wor | k Accomplished D | L During the Month | | | | | | | | | | | |
| Work progress | during August | 2016 included: | | | | | | | | | | | |
| More analysis collected project | | tion models. This inclu | udes elimina | ate bias from ruttir | ng and fatigue models, and ga | athered data from | | | | | | | |
| - More materia | als are received | from D1 for Creep C | ompliance a | and IDT testing. | | | | | | | | | |
| - Retrofitting th | ne MTS and ter | mp chamber I still on-g | going | - | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| Summary of Work | Completed to Date | e (Milestones Completed a | nd Dates) | | | | | | | | | | |
| Please refer to | | | na Batoo) | | | | | | | | | | |
| | | ls on calibration using | data from s | ome projects. | | | | | | | | | |
| | | by about 47% based | | | | | | | | | | | |
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| Information Requir | ed from ITD to Ave | oid Delays | | | | | | | | | | | |
| The research te | eam is still see | king projects from ITD | districts. M | lore projects are n | needed from D1, D4, 5 and 6. | Contacts are | | | | | | | |
| | istrict material | engineers. More timel | ly response | is needed so that | we proceed with the calibrati | on / validation | | | | | | | |
| process. | | | | | | | | | | | | | |
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| List Changes in So | ope or Complexity | Requiring a Supplemental | Agreement or | Time Adjustments | | | | | | | | | |
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| | | | | | | | | | | | | | |
| Consultant's Signa | ture | | | Printed Name and | Title | | | | | | | | |
| Information Required from ITD to Avoid Delays The research team is still seeking projects from ITD districts. More projects are needed from D1, D4, 5 and 6. Contar made with all district material engineers. More timely response is needed so that we proceed with the calibration / val process. List Changes in Scope or Complexity Requiring a Supplemental Agreement or Time Adjustments Consultant's Signature Printed Name and Title Fouad Bayomy, Principal Investigator | | | | | | | | | | | | | |
| | | | | . cour Buyoniy | | | | | | | | | |

Professional Agreement Invoice and Progress Report

Idaho Transportation Department

This page must be filled out by the Agreement Administrator.

| Key Number | Program (Work Authority) | Progress Report Number | Agreement | Number | | | | | | |
|-------------------|--------------------------|------------------------|-------------|-------------|--|--|--|--|--|--|
| | | 17 | 17 UI-15-04 | | | | | | | |
| Report Reviewed B | У | | | Review Date | | | | | | |
| | | | | | | | | | | |
| The Following was | Initiated | | | · | | | | | | |
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Status Report

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

| Agreement Time | | Time Passed | | I | Percent | of Agreement Time | Elapsed F | Percent of Work Completed | | | | | | |
|---------------------------------|-----------|---------------------|----------|-----------------|-------------|--------------------|---------------|---------------------------|---------------------------|--|--|--|--|--|
| 36 months | 17 months | | | | 47.23% | | 47% | | | | | | | |
| Original Agreement Amount | Supplem | ental(s) | Curre | ent Agreement A | mount | Payments (Includin | g this Paymen | t) Percent c | of Agreement Dollars Paid | | | | | |
| \$338,036.53 | | \$33 | 8,036.53 | | \$98,654.19 | | | 29.13% | | | | | | |
| Certification of Payment Sub | mitted C | ertification Date | | | - | nvoice | To Date | | Negotiated | | | | | |
| 🗌 Yes 🛛 🗌 No | | | Fixed Fe | | \$ | | \$ | | \$ | | | | | |
| If There is a Significant Varia | nce Betwe | een the Percentages | , Plea | ise Explain | | | | | | | | | | |
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| | | | | | | | | | | | | | | |
| Consultant Invoice Number | | | | This | Payme | nt Amount | | | | | | | | |
| Invoice 12 | | | | \$3, | \$3,006.15 | | | | | | | | | |

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 |
|-------------------------------------|------|---|
| | | |
| | | |

ITD RP235 UI-15-04 KLK572

RP 235 (KLK 572)

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

| | | | | 20 | 15 | | | | 2016 | | | | | | | | | | | | | 2017 | | | | | | | | | | | | 2018 | | | | |
|---------|--|-------------------|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|--------|------|-----|--------|--|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|
| Task No | Task Description | Month | Мау | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Jan | Feb | Mar | Apr | Мау | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Jan | Feb | Mar | Apr | Мау | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Jan | Feb | Mar | Apr |
| | | 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 |
| Tack 1 | Review of the ME software di prediction models for Flexible | | 5% | 5% | 5% | 10% | | | : | 15% | 15% | 20% | | | | | | | 10% | | | | | | | | | | | | | | | | | | | |
| | Evaluate the design inputs rea ME Software | quired for the | | | | 10% | | | 10% | 5% | 20% | 20% | | | 10% | 5% | | | 10% | | | | | | | | | | | | | | | | | | | |
| | Identify and select the pavem the calibration | nent sections for | | 5% | 5% | 5% | 10% | 10% | | | 10% | 5% | 3% | 5% | 5% | 17% | 5% | | This T | is Task will be carried further once more projects identified by districts | | | | | | | | | | | | | | | | | | |
| Task 4 | Conduct Creep Compliance a | nd IDT Testing | | 5% | | 5% | 5% | 5% | 5% | | 5% | | 2% | 2% | | 15% | 20% | 25% | | | | | | | | | | 4 | | | | | | | | | | |
| | Develop a performance datab calibration for the selected se | | | | | | | | | | | | | | | 7% | 10% | 25% | | | | | | | | | | 5 | | | | | | | | | | |
| Tack 6 | Run the software with the ass database | sembled | | | | | | | | | | | | | | | | | 25% | | | | | | | | | | | | 6 | | | | | | | |
| Tack 7 | Development and Validation calibration factors | of Idaho | | | | | | | | | | | | | | | | | 10% | | | | | | | | | | | | 7 | | | | | | | |
| Task 8 | Summary of findings and reco | ommendations | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 8 | | | | | | | |
| Task 9 | Prepare and conduct training | workshop | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 9 | | | | | | |
| Task 10 | | | | | | | | | | | | | | | Fin | al Rep | port | | | | | | | | | | | | | | | | | | | | | |
| а | Submit Outline for ITD to Rev | view | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| b | Meet ITD to discuss outline | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Prepare report and send draf reviewer | t to peer | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| d | Send draft to report editor | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| е | Submit draft of required outp | out | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| f | ITD / FHWA Review | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| g | Final Report due to ITD | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 10 |

Indicates Submittal # to ITD