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November 4, 2020

To: Madison County Board of Supervisors  
Shelton Vance, Madison County Administrator  
Na' Son White, Madison County Comptroller

From: Norman A. Cannady, Jr, Tax Assessor

RE: Tri-State Consulting Services – QA/QC Phase 4 Soils

Please review and approve phase 4 (Soils) of the QA/QC proposal from Tri-State Consulting services. This is the final phase of the QA/QC agreement for the 2018 ortho imagery update where the soils are updated based on the new photography. The cost for this phase is \$5000.

# Tri-State Consulting Services, Inc.

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Philadelphia, MS 39350  
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P (205) 338-1060  
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April 25, 2018

Madison County Tax Assessor  
Norman Cannandy Jr.  
171 Cobblestone Dr  
Madison, MS 39110-9197

Mr. Cannandy,

Madison County is one of the 10 counties that participated in the 2018 Mississippi Ortho Imagery Program. Acquiring new ortho imagery triggers some tasks not covered by the Imagery Program. Below is a description of those tasks and the cost associated with each task.

1. QA/QC (Quality Assurance/Quality Control) of the new orthophotos. Madison County is responsible for QA/QC of the imagery. The imagery is supposed to meet ASPRS Class I accuracy standards. Tri-State will collect survey points from around the entire multi-county project area and will use these points to perform the necessary mathematical computations to ensure the accuracy requirement is met. All imagery will be reviewed for proper color balance across the county. Seam lines between tiles will be reviewed to insure a smooth and proper match. All work will be done under the direction of an ASPRS certified photogrammetrist. Upon completion, a report of our findings will be presented to Madison County. Tri-State will perform a consequence review of every delivered orthophoto tile. This will include detailed reviews of:

- Color balance, tone, contrast and sharpness, with particular emphasis upon evaluating for natural color and evenly toned and color balanced imagery across the entire County, by minimizing changes between tiles and across image seam lines.
- Linear features (such as roads, sidewalks and canals) and elevated features (bridges) will be closely examined for correct representation within the imagery.
- All image seam lines will be examined by panning along each line and looking for any imagery offsets (displacements) and color tone changes across the boundary.

Tri-State will submit a shapefile to the ortho contractor of any errors that do not fall with the acceptable specifications of the contract.

COST- \$5000

2. Re-Cut image tiles. The images are delivered in a tile scheme that does not match the layout of the existing maps. Tiles will be recut with world files created to match the AutoCad sheet layout. The new images will be inserted into each AutoCad map file. Files will be created that will loaded in to the AutoCAD map sheets compatible with AutoCAD.

COST- \$3500

3. Parcel Adjustments. The existing property lines will be edited and adjusted in areas where the property lines do not reasonably match the physical and cultural features of the new photography. The cost estimate provided is a “best guess” as there is no way of knowing how much work will need to be done until the imagery is received. Assuming there is a reasonable match the provided cost will be adequate. The existing AutoCad map files will be edited and compared to the new imagery to insure a reasonable match between the existing property lines and the physical and cultural features of the new imagery. Differences typically occur for two reasons. The first is parcel splits created and new subdivisions since the last imagery was flown were mapped without benefit of ground detail. The second is the new 6” pixel imagery is more accurate and shows more detail than the existing imagery. Each and every parcel will be reviewed for discrepancies. Lines and text will be corrected in these mis-matched areas. All corrections will be done consistently and in a manner to insure that all existing applications will work correctly with the revised data. Water and road features will be mapped to match the newly acquired ortho photography.

Tri-State will work with the county to determine the best time to start the parcel adjustment. Typically it is done between once the 2019 tax roll is closed and before mapping begins for the 2020 tax year.

COST– \$7500

4. Soils. The Mississippi Department of Revenue requires that all parcels valued on an agricultural use basis be recalculated within two years of acquisition of new aerial photography. Land use (cultivable/uncultivable) will need to be delineated. The new digital soil maps will be imported into the data set and soils grouped according to productivity. Parcels valued on an agricultural use basis will be recalculated with the results being uploaded into the appraisal file.

COST– \$5000

The total costs for all 4 tasks is \$21,000. For budgetary purposes the proposed work can span multiple fiscal years:

Fiscal Year ending September 30, 2019 \$8500 (QA/QC and recut tiles)

Fiscal Year ending September 30, 2020 \$12,500 (parcel adjustment and soils for the July 2020 tax roll) optionally the county might consider doing soils for the 2021 tax roll because acquisition of the photography will be after July 2018 but that would need to be discussed with State.

Let me know if a contract needs to be created for these services or the county can provide PO numbers.

Best Regards,

*Monica Dennis*

Operations Manager  
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Pell City, AL 35125  
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