

STATE OF MICHIGAN ENTERPRISE PROCUREMENT

Department of Technology, Management, and Budget 320 S. Walnut Street 2nd Floor Lansing, MI 48933 P.O. BOX 30026 LANSING, MICHIGAN 48909

CONTRACT CHANGE NOTICE

Change Notice Number **4**

to

Contract Number MA21000001083

	THE S	THE SANBORN MAP COMPANY, INC.				Pr	Everet	t Root		DTMB
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	March 1, 2021 February 28, 2024			4		5 - 12 Months July 31, 2025			July 31, 2025	
	PAYMENT TERMS							DELIVERY TIME	FRA	ME
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(CURRENT	VALUE	VALUE OF CH	IANGE	NOTICE	ESTIMATED AGGREGATE CONTRACT VALUE				TRACT VALUE
\$1,124,757.58 \$700,000.00					\$1,824,757.58					
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12/2/2024, this change is to utilize three option years, revising the expiration date to 7/31/2028. This will add time and money in the amount of \$700,000.00 to reflect the three option years, to reflect the ortho imagery planning and acquisition. Adding a SOW for further reference below.										
All other terms, conditions, specifications, and pricing remain the same. Per contractor, agency and DTMB Central Procurement Services and Administrative Board approval on 12/3/2024.										



STATEMENT OF WORK -IT CHANGE NOTICE

Project Title:	Period of Coverage:
2025 MiSAIL Program - Imagery Acquisition	2025-2026
Requesting Department:	Date:
DTMB – Center for Shared Solutions	October 21,2024
Agency Project Manager:	Phone:
Ulrika S. Zay	517-242-2027
DTMB Project Manager:	Phone:
Ulrika S. Zay	517-242-2027

Brief description of services to be provided:

BACKGROUND:

Since 2004, the State of Michigan (the "State") has been working to acquire high resolution orthoimagery to assist in the geo-spatial data needs of State employees and to provide high quality images as a backdrop for the State's internet applications. During the last 16 years, a variety of State, local, and federal partnership initiatives have been put in place that have increased the availability of high resolution orthoimagery and increased the desire to continue to add to the available data. Access to high-quality, authoritative orthoimagery has created a demand for more data at better resolution, collected in a timely manner.

PROJECT OBJECTIVE:

It is the State's intent to acquire orthoimagery for approximately 25% (approximately 15,000 square miles) of the state annually. In addition, the State plans to extend services and pricing to State Partners, which may include, but are not limited to, Local, Federal, and Tribal government entities (collectively, "State Partners").

SCOPE OF WORK:

It is the State's expectation to issue a Statement of Work for orthoimagery acquisition in each year of the contract. See Attachment 1 for the detailed specifications.

TASKS:

Technical support is required to assist with the following tasks:

- 1. Provide aerial acquisition and production services to provide orthoimagery and associated products.
- 2. Acquire, produce, and deliver orthoimagery for 10,000 20,000 square miles annually.
- 3. Provide a secure online internet application for the State to review acquired imagery as part of the quality assurance / quality control processing.



DELIVERABLES:

Deliverables will not be considered complete until the Agency Project Manager has formally accepted them. Deliverables for this project include:

- 1. Delivery Schedule: All final deliverables shall be provided to the State and State Partners within 5 months of the end of the applicable flying season. This time period includes the 2-week period designated for each AOI to be reviewed by the customer.
- 2. Hard Drives: All GeoTIFF image tiles must be organized into one sub-directory per County and, along with deliverables identified below, be delivered to SOM via non-returnable external hard drive(s). Also, each State Partner must receive a non-returnable external hard drive with the same deliverables for their AOI.
- 3. ESRI Shapefiles: To be delivered in the same coordinate system as the orthoimagery.
 - a. Tile Index: A polygon shapefile of the image tile boundaries shall be provided. Each polygon will have a name attribute that corresponds with the individual image name (i.e., 021_2016_03_26_2565_0180).
 - b. Flight Lines: A flight diagram or flight index that illustrates the project area outline, the location of the flight lines and the approximate location of image centers, if relevant, shall be included as a deliverable. Flight lines and image centers shall be attributed with the acquisition date.
 - c. Vector Seam Index: A shapefile representing the vectors used during the image seaming process shall be provided with a flight date attribute.
- Updated Elevation Data: Elevation data created or modified for use in the orthorectification process shall be provided in a nonproprietary, mutually agreed upon format.
- 5. Sensor Station Control:
 - a. Airborne Global Positioning System (AGPS): Positional data and statistical summary report shall be submitted in a nonproprietary, mutually agreeable format. In addition, the contractor shall produce a statistical report summarizing the results of the AGPS adjustment.
 - b. Internal Measurement Unit (IMU) Data: If IMU exterior orientation data are part of the contractor's technical proposal, the contractor shall submit this sensor orientation data and a statistical summary report in a nonproprietary, mutually agreeable format. The contractor also shall produce a statistical report summarizing the overall accuracy of the adjusted IMU data.
- 6. Supplemental Ground Control: Conventionally surveyed or differentially corrected GPS Ground Control points used to supplement the AGPS positional data shall be delivered in a nonproprietary, mutually agreed upon format.
- 7. Independent Check Points: Check points collected shall be delivered in a nonproprietary, mutually agreed upon format.



8. Final Report: An annual final report with agreed upon content and an agreed upon format.

ACCEPTANCE CRITERIA:

Acceptance criteria will be set forth in the Contract Terms and any applicable Schedules.

PROJECT CONTROL AND REPORTS:

Once the project kick-off meeting has occurred, the Contractor Project Manager will monitor project implementation progress and report on a weekly basis to the State's Project Manager the following:

- Progress to complete milestones, comparing forecasted completion dates to planned and actual completion dates
- Accomplishments during the reporting period, what was worked on and what was completed during the current reporting period
- Indicate the number of hours expended during the past week, and the cumulative total to date for the project. Also, state whether the remaining hours are sufficient to complete the project, if applicable
- Tasks planned for the next reporting period
- Identify any existing issues which are impacting the project and the steps being taken to address those issues
- Identify any new risks and describe progress in mitigating high impact/high probability risks previously identified
- Indicate the amount of funds expended during the current reporting period, and the cumulative total to date for the project, if applicable

SPECIFIC DEPARTMENT STANDARDS:

Agency standards, if any, in addition to DTMB standards.

PAYMENT SCHEDULE:

State will remit to the Contractor a non-refundable payment of 25% of the total project schedule cost, due upon State's receipt of notice from Contractor that imagery acquisition is complete, and images are of an acceptable quality such that no reflights are necessary. The balance of the project schedule cost is due 45 days after State's receipt and acceptance of all final deliverables.

Payment will be made twice within an acquisition year. DTMB will pay CONTRACTOR upon receipt of properly completed invoice(s) which shall be submitted to the billing address on the State issued purchase order. DTMB Accounts Payable will coordinate



obtaining Agency and DTMB Project Manager approvals. All invoices should reflect actual work completed by payment date and must be approved by the Agency and DTMB Project Manager prior to payment. The invoices shall describe and document to the State's satisfaction a description of the work performed, the progress of the project, and fees. When expenses are invoiced, receipts will need to be provided along with a detailed breakdown of each type of expense.

Payment shall be considered timely if made by DTMB within forty-five (45) days after receipt of properly completed invoices.

EXPENSES:

The State will NOT pay for any travel expenses, including hotel, mileage, meals, parking, etc.

PROJECT CONTACTS:

The designated Agency Project Manager is:

Ulrika S. Zay DTMB – Center for Shared Solutions – Office of Technology Partnerships Romney Building, 10th Floor 111 S. Capitol Avenue Lansing, MI 48933

Phone: 517-242-2027 zayu@michigan.gov

The designated DTMB Project Manager is:

Ulrika S. Zay DTMB – Center for Shared Solutions – Office of Technology Partnerships Romney Building, 10th Floor 111 S. Capitol Avenue Lansing, MI 48933

Phone: 517-242-2027 zayu@michigan.gov

AGENCY RESPONSIBILITIES:

The State will provide the following resources as part of the implementation and ongoing support of the Solution.

State Contract Administrator. The State Contract Administrator is the individual appointed by the State to (a) administer the terms of this Contract, and (b) approve and execute any Change Notices under this Contract.



State Project Manager. The State Project Manager will serve as the primary contact with regard to implementation Services who will have the authority to act on behalf of the State in approving Deliverables, and day to day activities.

Agency Business Owner. The Agency Business Owner will serve as the primary contact for the business area with regard to business advisement who will have the authority to act on behalf of the State in matters pertaining to the business Specifications.

State Technical Lead. The State Technical Lead will serve as the primary contact with regard to technical advisement.

Contractor must identify all State resources and responsibilities required for the successful implementation and ongoing support of the Solution.

LOCATION OF WHERE THE WORK IS TO BE PERFORMED:

Consultants will work at: Their primary work locations.

EXPECTED CONTRACTOR WORK HOURS AND CONDITIONS:

Work hours are not to exceed eight (8) hours a day, forty (40) hours a week. Normal working hours of 8:00 am to 5:00 pm are to be observed unless otherwise agreed to in writing.

No overtime will be permitted.

PROJECT PLAN:

Attachment 1



Attachment 1: MiSAIL State of Michigan Orthoimagery Specification, 2025

At the time of the issue of this RFP, it is the State of Michigan's expectation to issue a Statement of Work for orthoimagery acquisition in each year of the contract.

1.0 Requirements

1.1 Characteristics

1.1.1 Image Format

Images shall be delivered in the latest GeoTIFF format. Individual GeoTIFF images shall form a mosaic that covers the areas of interest. Proprietary tags shall not be used. Image size and tiling scheme to be defined and provided by State of Michigan.

There will not be any NoData pixels within image tiles. Tiles will not have collars with NoData pixels.

Each GeoTIFF will be uniquely named using the following naming convention: Example for a Berrien County file: 021_2016_03_26_2565_0180

The first field will be the FIPS County Code (3 digits) ### (i.e. 021 for Berrien)

The second field will be the year of acquisition: (4 digits) YYYY

The third field will be the month of primary image acquisition (2 digits) MM

The fourth field will be the day of primary image acquisition (2 digits) DD

The fifth field will be the first 4 digits of the easting of the Tile's SW corner (4 digits) XXXX

The sixth field will be the first 4 digits of the northing of the Tile's SW corner (4 digits) YYYY

1.1.2 Image Type

Image tiles shall be 4-band image files comprised of the three visible bands and the Near-Infrared band. Band order to be as follows:

Band 1: Red Band 2: Green Band 3: Blue Band 4: Near-Infrared

Image radiometric resolution should be set to 8 bits per channel to create 32-bit image files. All bands should be balanced such that natural-color (Red, Green, Blue) and standard false-color composites



(Infrared, Red, Green) are spectrally correct. Natural color composites should appear natural to a human observer.

1.1.3 Image Coordinates

All orthoimagery and derivative data, such as tile footprints and flight line files, shall be referenced to the following coordinate space:

- Coordinate System: Michigan State Plane, appropriate zone
- Datum: North American Datum 1983(2011)
- Units: International Feet

Contractor must be prepared to deliver data that meets the requirements of the North American Terrestrial Reference Frame (NATRF) of 2022 for Michigan when the new projection becomes adopted. Contractor must be prepared to deliver data in Michigan region specific NATRF 2022 low-distortion zones when they become adopted. State to provide low-distortion zone boundary shapefiles. Airborne Global Positioning System (AGPS), Ground Control Points (GCPs), and other pertinent data sets must be transformed to the required Datum before image processing begins.

1.1.4 Image Resolution

Data collection shall occur at 12-inch (0.30 meter) ground sample distance (GSD) \pm 10%. This will be considered the standard product GSD. Optional data collection at 6-inch (0.15 meter) GSD and 3-inch (0.075 meter) GSD will also be available as an optional product per details in Section 6 of this document.

1.1.5 Metadata

Metadata shall be supplied for each AOI and shall include:

- FGDC compliant metadata for the Area of Interest
- Image location and outline
- 2D accuracy statement referencing the National Map Accuracy Standard for geospatial data at the 95% confidence level
- Camera used
- Date(s) of acquisition, specific to the AOI
- Ground sample distance as collected
- Focal ratio and exposure time
- Remarks on image quality and artifacts, if any
- The name of the supervising Certified Photogrammetrist
- Projection information



1.2 Image Quality

<u>Certified Photogrammetrist</u>: All production shall be under the supervision of an American Society of Photogrammetry and Remote Sensing (ASPRS) Certified Photogrammetrist. All products shall be reviewed and approved by an ASPRS Certified Photogrammetrist. The name of the supervising Certified Photogrammetrist shall be included in the metadata.

1.2.1 General Image Quality

Images shall appear sharp when viewed at 1 pixel per GSD and displayed or printed on high quality equipment at 80 to 100 pixels per inch. Mosaicking artifacts and other image artifacts shall be minimal or completely unnoticeable. Color mosaics shall be free from clouds, cloud shadows, haze, seams, gridding due to uncorrected camera vignetting, and other obvious, uncorrected artifacts. Hot spots and water glint shall be corrected.

1.2.2 Instrument Corrections

Instrument corrections for distortion and radiometric level shall be applied to raw data values based on most recent and up-to-date camera calibrations. Camera calibration records shall be maintained on file by the aerial photography company and copies of these records shall be provided with each year's final report.

1.2.3 Radiometric Correction

Images shall be color balanced to minimize perceptible differences in color tones within and between adjacent images. Color balancing shall result in colors which appear natural to a human observer.

Image contrast and brightness shall be adjusted to minimize perceptible differences within and between adjacent images.

Color balanced image samples for each AOI to be posted to the Contractor's secure online internet QA/QC application within 30 days of acquisition. Adjustment(s) as necessary shall be undertaken based on State of Michigan (SOM) review of each AOI.

1.2.4 Spatial Correction

The best available Digital Elevation Model (DEM) or Digital Terrain Model (DTM) representing the ground surface (e.g., Bare-earth) should be used to ortho-rectify the imagery. The elevation data may be obtained from the United States Geological Survey (USGS), or from another source, such as the State of Michigan or a State Partner. Elevation data may be derived from lidar, photogrammetry or aerial triangulation autocorrelation as long as it provides sufficient accuracy and precision to support orthoimagery horizontal accuracy requirements.

Cultural features such as roads, bridges, overpasses, buildings and other important features that are impacted by DEM artifacts shall be repaired.



During ortho-rectification, images shall be re-sampled at the specified GSD.

1.2.5 Mosaicking

Prior to tiling, image seams shall be placed to minimize disruption of important features of cultural or geographic significance—for example, large buildings, bridges, and major rivers. Image seams shall not run through elevated structures, such as bridges, overpasses, and large buildings. When feasible, seams shall be placed at naturally occurring lines in the image to render them less noticeable. Skews greater than one pixel shall be corrected.

1.2.6 Accuracy

All orthoimagery shall meet the horizontal accuracy requirement for 1:1,200 scale data, National Standard for Spatial Data Accuracy (NSSDA) at the 95% confidence level. The horizontal accuracy value is equal to or less than 3.80 feet, or 1.159 meters. In other words, 95% of the positions in the dataset must have an error with respect to true ground position that is equal to or smaller than 3.80 feet.

To ensure the data meets the horizontal accuracy requirement, the contractor will calculate the horizontal root mean squared error (RMSE) by comparing transformed orthoimagery coordinates with field-based ground control point and check point coordinate locations. The contractor will then calculate the horizontal accuracy at the 95% confidence level using the following equation:

Accuracy_r = RMSE_r * 1.7308

Where:

Accuracy_r = Horizontal Accuracy at the 95% confidence level

RMSE_r = Horizontal Root Mean Squared Error

To obtain this level of horizontal accuracy the contractor shall employ AGPS and Inertial Measurement Unit (IMU) technologies to record the precise location (X,Y,Z) and attitude (roll, pitch, yaw) of the sensor during image capture.

The contractor must also collect additional field-based Ground Control Points (GCPs) to supplement the airborne data such that minimum accuracy requirements are met. **At least 2** check points must also be located in each county or AOI, whichever is smallest in extent. In other words, if an AOI is composed of 5 counties, there must be 10 check points collected: 2 for each county. Check points may be located anywhere in the AOI but should not be in the same vicinity as the GCPs. Check points are not to be used in the Aerial Triangulation solution.

Accuracy of all GCPs and check points must be equal to or less than 0.10 meters in the horizontal (x,y) and equal to or less than 0.20 meters in the vertical (z).

GCPs must be verified by a registered surveyor and their name and credentials included in delivered reports.



Existing ground control supplied by the State of Michigan, a State Partner or a commercial entity may be used if available, assuming it meets the minimum accuracy requirements. Some data supplied by the State of Michigan may need to be marked by the contractor. For example, existing monuments may need to be marked prior to aerial acquisition but coordinates will be supplied.

All field-based ground control points and check points shall be taken at locations which are clearly identifiable on the aerial imagery.

* Contractor must also be prepared to deliver orthoimagery at ASPRS Class I accuracy standards on a project by project basis. Any additional costs will be agreed upon in advance.

1.3 Image Collection Constraints

1.3.1 Equipment

All Imagery from a single Area of Interest (AOI) shall be collected using a single digital aerial survey camera in good working order with up-to-date calibrations, an image stabilization system using an inertial measurement unit (IMU) and equipped with airborne GPS (AGPS). With prior, written permission from the State Program Manager, an additional camera of a different type may be used within an AOI. Contractor will provide a list of all Contractor OWNED aircraft and camera systems to be used under this contract.

Imagery shall be acquired using a large-format digital, metrically calibrated imaging sensor capable of simultaneous multi-spectral capture of Red, Green, Blue and Near-IR bands.

The digital camera shall employ methods for preventing image smear related to forward motion if necessary. Frame-based cameras must utilize Time Delayed Integration (TDI), or an equivalent technology, to address image smear.

The camera lens and detector array shall be clean and free of excess dust or lint.

1.3.2 Flight Path

Imagery in all AOIs shall be collected on either north-south or east-west lines whenever feasible, and all imagery in a single AOI shall be collected on parallel lines, unless flight path restrictions in the area make this impractical.

1.3.3 Camera Orientation

Imagery shall be collected at a crab angle of less than 5 degrees, which is measured between the camera's along-track image axis and the aircraft line of flight. The camera shall be nadir pointed within 2 degrees on average and shall not exceed 4 degrees off nadir at any time during image collection.

1.3.4 Image Overlap and Sidelap

Imagery of the AOIs shall be collected with \geq 60% in-track overlap and \geq 30% sidelap. True ortho shall be \geq 80% in-track overlap and \geq 80% sidelap. See Section 6.1.



1.3.5 Camera Settings

Camera aperture and exposure time shall be adjusted for light conditions to achieve optimal image quality, consistent with the camera manufacturer's recommendations or automated settings, unless the camera operator has data which demonstrate that a different setting produces superior results under conditions at the time of collection.

1.3.6 Acquisition Status Tracking

Contractor shall provide a secure online mapping application displaying flight lines for each flying season. Each flight line status to be updated daily and symbolized using an agreed upon criteria such as: planned, acquired, accepted, etc.

1.4 Environmental Conditions

Imagery shall be collected under clear skies. The air shall be free of smoke, dust, and excessive haze. Incidental smoke from prescribed burns or residential landscape burns are permissible.

Imagery shall be collected at sun elevation angles greater than 30 degrees. The sun elevation requirement may be relaxed by the State Program Manager.

Adjacent flight lines shall be flown at sun elevation angles which differ by less than 15 degrees.

Roadways shall not be wet from recent precipitation.

The ground shall be free of snow cover and lakes free of ice. The requirement for snow and ice-free collection may be waived by the State Program Manager.

The ground shall not be obscured by fog.

Imagery shall be collected while deciduous trees are free of leaves unless this requirement has been waived by the State Program Manager in writing for the specific AOI.

Each AOI will have an agreed upon Environmental Conditions (EC) contact who the State Program Manager and contractor will work with to determine when conditions are within specifications for acquisition to start. Official communications with the EC are the responsibility of the State Program Manager. The EC will be consulted if conditions reach a stage where they are questionable. See table below for details on roles and responsibilities.

MISAIL ACQUISITION ENVIRONMENTAL CRITERIA ROLES & RESPONSIBILITIES

Parameter	Criteria	Reportable Conditions
Sky Conditions	Clear, with no clouds, smoke, dust, smog, haze, or precipitation such as rain or fog.	Generally, the responsibility of Contractor. State/Environmental Conditions (EC) contact to report any unusual conditions not likely to be reported or seen



		in ordinary weather reports, such as large fires, activities likely to produce large amounts of dust.
Sun Angle	Greater than 30 degrees. Difference between flight lines of less than 15 degrees.	Full responsibility of Contractor
Ground Conditions	Clear of snow	State/EC to Authorize acquisition in writing (email is acceptable) when conditions are acceptable and if there is any change in that authorization to a point that imagery would not be desired at that point (i.e. snow falls after authorization given). Most areas should be basically clear of snow. Minor snow piles or embankments in non-critical areas, such as bases of trees, may be acceptable.
Trees	Deciduous trees free of leaves	State/EC to Authorize acquisition in writing (email acceptable). Recommendation is for trees to be relatively free of leaves. Certain ornamental trees may leaf-on unusually early and typically are not disqualifying. Requirement may otherwise be loosened at State's/EC option per contract in such as open fields, pine forest, and urban areas. Contractor will provide its professional opinion for consideration by the stakeholders.
Streams and Rivers	Within natural banks	State/EC to report any unusual conditions that have or have the potential to cause flooding. State/EC will notify Contractor of significant rain events and any observed flooding.
Lakes	Free of ice	State/EC to Authorize acquisition in writing (email acceptable). Some ice on lakes may be allowed if other conditions are favorable
Roadways	Not wet from recent precipitation	State/EC to report any unusual conditions not caused by ordinary, observable weather phenomena.



2.0 Areas of Interest

Areas of interest (AOIs) shall be identified by the state's tiling index, typically by County. If an AOI includes an island within the Great Lakes, the island shall be flown and processed like any other land area. AOIs totaling the desired number of square miles shall be identified by the State and provided via an ESRI shapefile.

3.0 Quality Assurance Provisions (QA)

3.1 General

Independent quality checks shall be performed to certify the accuracy of the product and conformance to image quality specifications. Specific inspections shall be carried out at appropriate image scale and frequency to verify the Image Quality requirements.

3.2 Visual Inspection for Specific Artifacts

All Image Quality Requirements in Sections 1.2.1, 1.2.2, 1.2.3, 1.2.4, and 1.2.5 shall be inspected at a scale of 400 feet per inch or larger. Seam lines, glints, color balance, DEM artifacts, and bridges on roadways shall be addressed in this inspection, and artifacts noticeable at this scale shall be corrected. In urban areas, a scale of 200 feet per inch or larger shall be used for inspection.

Linear or hard-edge features along seamlines are to be inspected at 200-foot scale or larger on all imagery. These features include, but are not limited to: roads, railroads, vehicular trails (two-tracks), field lines, watercourses, lake shorelines, coniferous forest stands, and breaks between maintained lawns and natural fields in rural areas. Misalignments shall be corrected.

3.3 Customer QA/QC

Contractor shall provide a secure online internet QA/QC application. In addition, an ESRI ArcGIS server service, or an OGC WMS image service shall be made available to allow internet access to near lossless full-scale viewing of the orthoimagery. The intent is to eliminate the need to ship vast amounts of data on portable media to the State and State Partners for the purpose of error identification and the verification of corrections. Tile boundaries and seamline boundaries shall be displayed. The application shall provide timely access to data processed for this project. Imagery shall become available for viewing with the completion of the first AOI and a 2-week time period will be designated for each AOI to be available for review by the State. Imagery made available for review shall be fully processed and shall have passed the contractor quality control process. The application shall allow project stakeholders the ability to review orthoimagery, identify and attribute items in-question for discussion with both the State's Project Manager and the PM of the Contractor. The service shall be available during the term of the Contract. Bidder shall provide a description of the software to be used for this service.

3.4 Warranty Against Image Defects

Defects in imagery that are reported by the customer during the customer Quality Control (QC) period shall be corrected by re-acquisition and/or re-processing. Defects in image processing reported by the customer within 12 months of the delivery of final deliverables shall be corrected by re-processing.



4.0 Deliverables

4.1 Hard Drives

All GeoTIFF image tiles must be organized into one sub-directory per County and items identified in Section 6.0, Additional Deliverables, of this attachment must be delivered to SOM via non-returnable external hard drive. Also, each State Partner must receive a non-returnable external hard drive with the same deliverables for their AOI. State Partner contact shipping information to be provided by State's Project Manager.

4.2 Delivery schedule

Final corrected imagery along with all peripherals listed in Section 6 for each season shall be delivered to the State and State Partners within 5 months of the end of the applicable flying season. This time period includes the 2-week period designated for each AOI to be reviewed by the customer per section 3.3 above.

4.3 Compressed Mosaic

A compressed image mosaic for each County to be created and delivered in an agreed upon file format.

5.0 Buy-up Options

5.1 High Resolution Areas (HRA)

In addition to 12-inch (0.30 meter) GSD imagery, the contractor will provide separate pricing for data collection at a GSD of 6-inch (0.15 meters) and a GSD of 3-inch (0.075 meters). The State of Michigan or its State Partners may elect to collect portions of an AOI at 12-inch (0.30 meter) GSD and other portions within that AOI at either 6-inch (0.15 meter) GSD and/or 3-inch (0.075 meter) GSD.

Spatial resolution shall match GSD \pm 10%. If this option is chosen for an AOI the area will be imaged at 6-inch or 3-inch resolution, rather than, or in addition to, the 12-inch resolution. Contractor is encouraged to propose additional high-resolution options.

SOM will provide an ESRI shapefile with the tiles from the tile index defining HRA areas.

HRAs will meet the same image quality requirements as 12-inch (0.30 meter) GSD AOIs.

5.2 True Ortho Areas (TOA)

The contractor will provide separate pricing for true ortho data to be collected with \ge 80% in track overlap and \ge 80% sidelap.

SOM will provide an ESRI shapefile with the tiles from the tile index defining TOAs.

TOAs will meet the same image quality requirements as 12-inch (0.30 meter) GSD AOIs.



6.0 Additional Deliverables at no cost to the SOM for 100% of each AOI

6.1 ESRI Shapefiles

To be delivered in the same coordinate system as the orthoimagery.

6.1.1 Tile index

A polygon shapefile of the image tile boundaries shall be provided. Each polygon will have a name attribute that corresponds with the individual image name. IE: 021_2016_03_26_2565_0180

6.1.2 Flight lines

A flight diagram or flight index that illustrates the project area outline, the location of the flight lines and the approximate location of image centers, if relevant, shall be included as a deliverable. Flight lines and image centers shall be attributed with the acquisition date.

6.1.3 Vector seam index

A shapefile representing the vectors used during the image seaming process shall be provided with a flight date attribute.

6.2 Updated Elevation Data

Elevation data created or modified for use in the ortho-rectification process shall be provided in a nonproprietary mutually agreeable format.

6.3 Sensor Station Control

6.3.1 Airborne Global Positioning System (AGPS)

Positional data and statistical summary report shall be submitted in a nonproprietary, mutually agreeable format. In addition, the contractor shall produce a statistical report summarizing the results of the AGPS adjustment.

6.3.2 Internal Measurement Unit (IMU) Data

If IMU exterior orientation data are part of the contractor's technical proposal, the contractor shall submit this sensor orientation data and a statistical summary report in a nonproprietary, mutually agreeable format. The contractor also shall produce a statistical report summarizing the overall accuracy of the adjusted IMU data.

6.4 Supplemental Ground Control

Conventionally surveyed or differentially corrected GPS Ground Control points collected per Section 1.2.6 and used to supplement the AGPS positional data shall be delivered in a nonproprietary, mutually agreed upon format.



6.5 Independent Check Points

Check points collected per section 1.2.6 shall be delivered in a nonproprietary, mutually agreed upon format.

6.6 Final Report

An annual final report with agreed upon content and an agreed upon format. See the subjects listed below as examples of information to be included.

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Project Overview Technical Narrative of Processes, Obstacles, and Outcomes Summary of Planned Flight Parameters Michigan County Project Area Map Summary of Flight Metrics Digital Camera, Airborne GPS-IMU, and Aircraft Systems Flight Management Software Flight Logs per Lift GIS Shapefiles of Actual Flight Data Camera Calibration Files GPS-IMU Post Processed Data in Excel Format Daily Imagery Acquisition Summary Report List of Electronic Files



STATE OF MICHIGAN CENTRAL PROCUREMENT SERVICES

Department of Technology, Management, and Budget

320 S. WALNUT ST., LANSING, MICHIGAN 48933 P.O. BOX 30026 LANSING, MICHIGAN 48909

CONTRACT CHANGE NOTICE

Change Notice Number 3

to

Contract Number 21000001083

	THE SANBORN MAP COMPANY, INC.	Manager	< ₽	Everett Root	DTMB
СО	1935 Jamboree Drive, Suite 100		517-335-7180		
INC	Colorado Springs, CO 80920		ÿ	roote@michigan.gov	
RA	Brad Arshat	TE	Adm	Sean Regan	DTMB
сто	(443) 603-7725		ontract iinistrato	(517) 243-8459	
DR	barshat@sanborn.com		:t ator	regans@michigan.gov	
	CV0002134				

CONTRACT SUMMARY								
OPTIONAL IMAGERY HOSTING SERVICE								
INITIAL EFFECTIVE DATE	INITIAL EXPIRAT	TION DATE	INITIAL AVAILABLE OPTION	AVAILABLE OPTIONS EXPIRATION DATE BEFORE				
March 1, 2021	February 28	, 2024	5 - 1 Year	5 - 1 Year				
PAYN	IENT TERMS		DELIVERY TIMEFRAME					
	ALTERNATE PAYMENT OPTIONS EXTENDED PURCHASING							
P-Card	P-Card PRC Other				🖾 Yes 🛛 No			
MINIMUM DELIVERY REQUIR	REMENTS							
	D	ESCRIPTION O	F CHANGE NOTICE					
OPTION LENGT	H OF OPTION	EXTENSION	LENGTH OF EXTENSION		REVISED EXP. DATE			
					July 31, 2025			
CURRENT VALUE	VALUE OF CHAN	GE NOTICE	ESTIMATED AGGREGA	TE CON	ITRACT VALUE			
\$189,757.58 \$935,000.00 \$1,124,757.58								
DESCRIPTION								
Effective November 28, 2023, this Contract is increased by \$935,000.00, and adding the below statement of work for orthoimagery services that will cover 25% of the State of Michigan footprint.								

All other terms, conditions, specifications, and pricing remain the same. Per contractor, agency and DTMB Central Procurement Services and Administrative Board approval on 11/28/2023.



STATEMENT OF WORK -IT CHANGE NOTICE

Project Title:	Period of Coverage:
MiSAIL Program - Imagery Acquisition	2024-2026
Requesting Department:	Date:
DTMB – Center for Shared Solutions	October 19, 2023
Agency Project Manager:	Phone:
Ulrika S. Zay	517-242-2027
DTMB Project Manager:	Phone:
Ulrika S. Zay	517-242-2027

Brief description of services to be provided:

BACKGROUND:

Since 2004, the State of Michigan (the "State") has been working to acquire high resolution orthoimagery to assist in the geo-spatial data needs of State employees and to provide high quality images as a backdrop for the State's internet applications. During the last 16 years, a variety of State, local, and federal partnership initiatives have been put in place that have increased the availability of high resolution orthoimagery and increased the desire to continue to add to the available data. Access to high-quality, authoritative orthoimagery has created a demand for more data at better resolution, collected in a timely manner.

PROJECT OBJECTIVE:

It is the State's intent to acquire orthoimagery for approximately 25% (approximately 15,000 square miles) of the state annually. In addition, the State plans to extend services and pricing to State Partners, which may include, but are not limited to, Local, Federal, and Tribal government entities (collectively, "State Partners").

SCOPE OF WORK:

It is the State's expectation to issue a Statement of Work for orthoimagery acquisition in each year of the contract. See Attachment 1 for the detailed specifications.

TASKS:

Technical support is required to assist with the following tasks:

- 1. Provide aerial acquisition and production services to provide orthoimagery and associated products.
- 2. Acquire, produce, and deliver orthoimagery for 10,000 20,000 square miles annually.
- 3. Provide a secure online internet application for the State to review acquired imagery as part of the quality assurance / quality control processing.



DELIVERABLES:

Deliverables will not be considered complete until the Agency Project Manager has formally accepted them. Deliverables for this project include:

- 1. Delivery Schedule: All final deliverables shall be provided to the State and State Partners within 5 months of the end of the applicable flying season. This time period includes the 2-week period designated for each AOI to be reviewed by the customer.
- 2. Hard Drives: All GeoTIFF image tiles must be organized into one sub-directory per County and, along with deliverables identified below, be delivered to SOM via non-returnable external hard drive(s). Also, each State Partner must receive a non-returnable external hard drive with the same deliverables for their AOI.
- 3. ESRI Shapefiles: To be delivered in the same coordinate system as the orthoimagery.
 - a. Tile Index: A polygon shapefile of the image tile boundaries shall be provided. Each polygon will have a name attribute that corresponds with the individual image name (i.e., 021_2016_03_26_2565_0180).
 - b. Flight Lines: A flight diagram or flight index that illustrates the project area outline, the location of the flight lines and the approximate location of image centers, if relevant, shall be included as a deliverable. Flight lines and image centers shall be attributed with the acquisition date.
 - c. Vector Seam Index: A shapefile representing the vectors used during the image seaming process shall be provided with a flight date attribute.
- Updated Elevation Data: Elevation data created or modified for use in the orthorectification process shall be provided in a nonproprietary, mutually agreed upon format.
- 5. Sensor Station Control:
 - a. Airborne Global Positioning System (AGPS): Positional data and statistical summary report shall be submitted in a nonproprietary, mutually agreeable format. In addition, the contractor shall produce a statistical report summarizing the results of the AGPS adjustment.
 - b. Internal Measurement Unit (IMU) Data: If IMU exterior orientation data are part of the contractor's technical proposal, the contractor shall submit this sensor orientation data and a statistical summary report in a nonproprietary, mutually agreeable format. The contractor also shall produce a statistical report summarizing the overall accuracy of the adjusted IMU data.
- 6. Supplemental Ground Control: Conventionally surveyed or differentially corrected GPS Ground Control points used to supplement the AGPS positional data shall be delivered in a nonproprietary, mutually agreed upon format.
- 7. Independent Check Points: Check points collected shall be delivered in a nonproprietary, mutually agreed upon format.



8. Final Report: An annual final report with agreed upon content and an agreed upon format.

ACCEPTANCE CRITERIA:

Acceptance criteria will be set forth in the Contract Terms and any applicable Schedules.

PROJECT CONTROL AND REPORTS:

Once the project kick-off meeting has occurred, the Contractor Project Manager will monitor project implementation progress and report on a weekly basis to the State's Project Manager the following:

- Progress to complete milestones, comparing forecasted completion dates to planned and actual completion dates
- Accomplishments during the reporting period, what was worked on and what was completed during the current reporting period
- Indicate the number of hours expended during the past week, and the cumulative total to date for the project. Also, state whether the remaining hours are sufficient to complete the project, if applicable
- Tasks planned for the next reporting period
- Identify any existing issues which are impacting the project and the steps being taken to address those issues
- Identify any new risks and describe progress in mitigating high impact/high probability risks previously identified
- Indicate the amount of funds expended during the current reporting period, and the cumulative total to date for the project, if applicable

SPECIFIC DEPARTMENT STANDARDS:

Agency standards, if any, in addition to DTMB standards.

PAYMENT SCHEDULE:

State will remit to the Contractor a non-refundable payment of 25% of the total project schedule cost, due upon State's receipt of notice from Contractor that imagery acquisition is complete, and images are of an acceptable quality such that no reflights are necessary. The balance of the project schedule cost is due 45 days after State's receipt and acceptance of all final deliverables.

Payment will be made twice within an acquisition year. DTMB will pay CONTRACTOR upon receipt of properly completed invoice(s) which shall be submitted to the billing address on the State issued purchase order. DTMB Accounts Payable will coordinate



obtaining Agency and DTMB Project Manager approvals. All invoices should reflect actual work completed by payment date and must be approved by the Agency and DTMB Project Manager prior to payment. The invoices shall describe and document to the State's satisfaction a description of the work performed, the progress of the project, and fees. When expenses are invoiced, receipts will need to be provided along with a detailed breakdown of each type of expense.

Payment shall be considered timely if made by DTMB within forty-five (45) days after receipt of properly completed invoices.

EXPENSES:

The State will NOT pay for any travel expenses, including hotel, mileage, meals, parking, etc.

PROJECT CONTACTS:

The designated Agency Project Manager is:

Ulrika S. Zay DTMB – Center for Shared Solutions – Office of Technology Partnerships Romney Building, 10th Floor 111 S. Capitol Avenue Lansing, MI 48933

Phone: 517-242-2027 zayu@michigan.gov

The designated DTMB Project Manager is:

Ulrika S. Zay DTMB – Center for Shared Solutions – Office of Technology Partnerships Romney Building, 10th Floor 111 S. Capitol Avenue Lansing, MI 48933

Phone: 517-242-2027 zayu@michigan.gov

AGENCY RESPONSIBILITIES:

The State will provide the following resources as part of the implementation and ongoing support of the Solution.

State Contract Administrator. The State Contract Administrator is the individual appointed by the State to (a) administer the terms of this Contract, and (b) approve and execute any Change Notices under this Contract.



State Project Manager. The State Project Manager will serve as the primary contact with regard to implementation Services who will have the authority to act on behalf of the State in approving Deliverables, and day to day activities.

Agency Business Owner. The Agency Business Owner will serve as the primary contact for the business area with regard to business advisement who will have the authority to act on behalf of the State in matters pertaining to the business Specifications.

State Technical Lead. The State Technical Lead will serve as the primary contact with regard to technical advisement.

Contractor must identify all State resources and responsibilities required for the successful implementation and ongoing support of the Solution.

LOCATION OF WHERE THE WORK IS TO BE PERFORMED:

Consultants will work at: Their primary work locations.

EXPECTED CONTRACTOR WORK HOURS AND CONDITIONS:

Work hours are not to exceed eight (8) hours a day, forty (40) hours a week. Normal working hours of 8:00 am to 5:00 pm are to be observed unless otherwise agreed to in writing.

No overtime will be permitted.

PROJECT PLAN:

Original SOW – Schedule A, Exhibit 1, Attachment 1



Attachment 1: MiSAIL State of Michigan Orthoimagery Specification, 2023

At the time of the issue of this RFP, it is the State of Michigan's expectation to issue a Statement of Work for orthoimagery acquisition in each year of the contract.

1.0 Requirements

1.1 Characteristics

1.1.1 Image Format

Images shall be delivered in the latest GeoTIFF format. Individual GeoTIFF images shall form a mosaic that covers the areas of interest. Proprietary tags shall not be used. Image size and tiling scheme to be defined and provided by State of Michigan.

There will not be any NoData pixels within image tiles. Tiles will not have collars with NoData pixels.

Each GeoTIFF will be uniquely named using the following naming convention: Example for a Berrien County file: 021_2016_03_26_2565_0180

The first field will be the FIPS County Code (3 digits) ### (i.e. 021 for Berrien)

The second field will be the year of acquisition: (4 digits) YYYY

The third field will be the month of primary image acquisition (2 digits) MM

The fourth field will be the day of primary image acquisition (2 digits) DD

The fifth field will be the last 4 digits of the easting of the Tile's SW corner (4 digits) XXXX

The sixth field will be the last 4 digits of the northing of the Tile's SW corner (4 digits) YYYY

1.1.2 Image Type

Image tiles shall be 4-band image files comprised of the three visible bands and the Near-Infrared band. Band order to be as follows:

Band 1: Red Band 2: Green Band 3: Blue Band 4: Near-Infrared

Image radiometric resolution should be set to 8 bits per channel to create 32-bit image files. All bands should be balanced such that natural-color (Red, Green, Blue) and standard false-color composites



(Infrared, Red, Green) are spectrally correct. Natural color composites should appear natural to a human observer.

1.1.3 Image Coordinates

All orthoimagery and derivative data, such as tile footprints and flight line files, shall be referenced to the following coordinate space:

- Coordinate System: Michigan State Plane, appropriate zone
- Datum: North American Datum 1983(2011)
- Units: International Feet

Contractor must be prepared to deliver data that meets the requirements of the North American Terrestrial Reference Frame (NATRF) of 2022 for Michigan when the new projection becomes adopted. Contractor must be prepared to deliver data in Michigan region specific NATRF 2022 low-distortion zones when they become adopted. State to provide low-distortion zone boundary shapefiles. Airborne Global Positioning System (AGPS), Ground Control Points (GCPs), and other pertinent data sets must be transformed to the required Datum before image processing begins.

1.1.4 Image Resolution

Data collection shall occur at 12-inch (0.30 meter) ground sample distance (GSD) \pm 10%. This will be considered the standard product GSD. Optional data collection at 6-inch (0.15 meter) GSD and 3-inch (0.075 meter) GSD will also be available as an optional product per details in Section 6 of this document.

1.1.5 Metadata

Metadata shall be supplied for each AOI and shall include:

- FGDC compliant metadata for the Area of Interest
- Image location and outline
- 2D accuracy statement referencing the National Map Accuracy Standard for geospatial data at the 95% confidence level
- Camera used
- Date(s) of acquisition, specific to the AOI
- Ground sample distance as collected
- Focal ratio and exposure time
- Remarks on image quality and artifacts, if any
- The name of the supervising Certified Photogrammetrist
- Projection information



1.2 Image Quality

<u>Certified Photogrammetrist</u>: All production shall be under the supervision of an American Society of Photogrammetry and Remote Sensing (ASPRS) Certified Photogrammetrist. All products shall be reviewed and approved by an ASPRS Certified Photogrammetrist. The name of the supervising Certified Photogrammetrist shall be included in the metadata.

1.2.1 General Image Quality

Images shall appear sharp when viewed at 1 pixel per GSD and displayed or printed on high quality equipment at 80 to 100 pixels per inch. Mosaicking artifacts and other image artifacts shall be minimal or completely unnoticeable. Color mosaics shall be free from clouds, cloud shadows, haze, seams, gridding due to uncorrected camera vignetting, and other obvious, uncorrected artifacts. Hot spots and water glint shall be corrected.

1.2.2 Instrument Corrections

Instrument corrections for distortion and radiometric level shall be applied to raw data values based on most recent and up-to-date camera calibrations. Camera calibration records shall be maintained on file by the aerial photography company and copies of these records shall be provided with each year's final report.

1.2.3 Radiometric Correction

Images shall be color balanced to minimize perceptible differences in color tones within and between adjacent images. Color balancing shall result in colors which appear natural to a human observer.

Image contrast and brightness shall be adjusted to minimize perceptible differences within and between adjacent images.

Color balanced image samples for each AOI to be posted to the Contractor's secure online internet QA/QC application within 30 days of acquisition. Adjustment(s) as necessary shall be undertaken based on State of Michigan (SOM) review of each AOI.

1.2.4 Spatial Correction

The best available Digital Elevation Model (DEM) or Digital Terrain Model (DTM) representing the ground surface (e.g., Bare-earth) should be used to ortho-rectify the imagery. The elevation data may be obtained from the United States Geological Survey (USGS), or from another source, such as the State of Michigan or a State Partner. Elevation data may be derived from lidar, photogrammetry or aerial triangulation autocorrelation as long as it provides sufficient accuracy and precision to support orthoimagery horizontal accuracy requirements.

Cultural features such as roads, bridges, overpasses, buildings and other important features that are impacted by DEM artifacts shall be repaired.



During ortho-rectification, images shall be re-sampled at the specified GSD.

1.2.5 Mosaicking

Prior to tiling, image seams shall be placed to minimize disruption of important features of cultural or geographic significance—for example, large buildings, bridges, and major rivers. Image seams shall not run through elevated structures, such as bridges, overpasses, and large buildings. When feasible, seams shall be placed at naturally occurring lines in the image to render them less noticeable. Skews greater than one pixel shall be corrected.

1.2.6 Accuracy

All orthoimagery shall meet the horizontal accuracy requirement for 1:1,200 scale data, National Standard for Spatial Data Accuracy (NSSDA) at the 95% confidence level. The horizontal accuracy value is equal to or less than 3.80 feet, or 1.159 meters. In other words, 95% of the positions in the dataset must have an error with respect to true ground position that is equal to or smaller than 3.80 feet.

To ensure the data meets the horizontal accuracy requirement, the contractor will calculate the horizontal root mean squared error (RMSE) by comparing transformed orthoimagery coordinates with field-based ground control point and check point coordinate locations. The contractor will then calculate the horizontal accuracy at the 95% confidence level using the following equation:

Accuracy_r = RMSE_r * 1.7308

Where:

Accuracy_r = Horizontal Accuracy at the 95% confidence level

RMSE_r = Horizontal Root Mean Squared Error

To obtain this level of horizontal accuracy the contractor shall employ AGPS and Inertial Measurement Unit (IMU) technologies to record the precise location (X,Y,Z) and attitude (roll, pitch, yaw) of the sensor during image capture.

The contractor must also collect additional field-based Ground Control Points (GCPs) to supplement the airborne data such that minimum accuracy requirements are met. **At least 2** check points must also be located in each county or AOI, whichever is smallest in extent. In other words, if an AOI is composed of 5 counties, there must be 10 check points collected: 2 for each county. Check points may be located anywhere in the AOI but should not be in the same vicinity as the GCPs. Check points are not to be used in the Aerial Triangulation solution.

Accuracy of all GCPs and check points must be equal to or less than 0.10 meters in the horizontal (x,y) and equal to or less than 0.20 meters in the vertical (z).

GCPs must be verified by a registered surveyor and their name and credentials included in delivered reports.



Existing ground control supplied by the State of Michigan, a State Partner or a commercial entity may be used if available, assuming it meets the minimum accuracy requirements. Some data supplied by the State of Michigan may need to be marked by the contractor. For example, existing monuments may need to be marked prior to aerial acquisition but coordinates will be supplied.

All field-based ground control points and check points shall be taken at locations which are clearly identifiable on the aerial imagery.

* Contractor must also be prepared to deliver orthoimagery at ASPRS Class I accuracy standards on a project by project basis. Any additional costs will be agreed upon in advance.

1.3 Image Collection Constraints

1.3.1 Equipment

All Imagery from a single Area of Interest (AOI) shall be collected using a single digital aerial survey camera in good working order with up-to-date calibrations, an image stabilization system using an inertial measurement unit (IMU) and equipped with airborne GPS (AGPS). With prior, written permission from the State Program Manager, an additional camera of a different type may be used within an AOI. Contractor will provide a list of all Contractor OWNED aircraft and camera systems to be used under this contract.

Imagery shall be acquired using a large-format digital, metrically calibrated imaging sensor capable of simultaneous multi-spectral capture of Red, Green, Blue and Near-IR bands.

The digital camera shall employ methods for preventing image smear related to forward motion if necessary. Frame-based cameras must utilize Time Delayed Integration (TDI), or an equivalent technology, to address image smear.

The camera lens and detector array shall be clean and free of excess dust or lint.

1.3.2 Flight Path

Imagery in all AOIs shall be collected on either north-south or east-west lines whenever feasible, and all imagery in a single AOI shall be collected on parallel lines, unless flight path restrictions in the area make this impractical.

1.3.3 Camera Orientation

Imagery shall be collected at a crab angle of less than 5 degrees, which is measured between the camera's along-track image axis and the aircraft line of flight. The camera shall be nadir pointed within 2 degrees on average and shall not exceed 4 degrees off nadir at any time during image collection.

1.3.4 Image Overlap and Sidelap

Imagery of the AOIs shall be collected with \geq 60% in-track overlap and \geq 30% sidelap. True ortho shall be \geq 80% in-track overlap and \geq 80% sidelap. See Section 6.1.



1.3.5 Camera Settings

Camera aperture and exposure time shall be adjusted for light conditions to achieve optimal image quality, consistent with the camera manufacturer's recommendations or automated settings, unless the camera operator has data which demonstrate that a different setting produces superior results under conditions at the time of collection.

1.3.6 Acquisition Status Tracking

Contractor shall provide a secure online mapping application displaying flight lines for each flying season. Each flight line status to be updated daily and symbolized using an agreed upon criteria such as: planned, acquired, accepted, etc.

1.4 Environmental Conditions

Imagery shall be collected under clear skies. The air shall be free of smoke, dust, and excessive haze. Incidental smoke from prescribed burns or residential landscape burns are permissible.

Imagery shall be collected at sun elevation angles greater than 30 degrees. The sun elevation requirement may be relaxed by the State Program Manager.

Adjacent flight lines shall be flown at sun elevation angles which differ by less than 15 degrees.

Roadways shall not be wet from recent precipitation.

The ground shall be free of snow cover and lakes free of ice. The requirement for snow and ice-free collection may be waived by the State Program Manager.

The ground shall not be obscured by fog.

Imagery shall be collected while deciduous trees are free of leaves unless this requirement has been waived by the State Program Manager in writing for the specific AOI.

Each AOI will have an agreed upon Environmental Conditions (EC) contact who the State Program Manager and contractor will work with to determine when conditions are within specifications for acquisition to start. Official communications with the EC are the responsibility of the State Program Manager. The EC will be consulted if conditions reach a stage where they are questionable. See table below for details on roles and responsibilities.

MISAIL ACQUISITION ENVIRONMENTAL CRITERIA ROLES & RESPONSIBILITIES

Parameter	Criteria	Reportable Conditions
Sky Conditions	Clear, with no clouds, smoke, dust, smog, haze, or precipitation such as rain or fog.	Generally, the responsibility of Contractor. State/Environmental Conditions (EC) contact to report any unusual conditions not likely to be reported or seen



		in ordinary weather reports, such as large fires, activities likely to produce large amounts of dust.
Sun Angle	Greater than 30 degrees. Difference between flight lines of less than 15 degrees.	Full responsibility of Contractor
Ground Conditions	Clear of snow	State/EC to Authorize acquisition in writing (email is acceptable) when conditions are acceptable and if there is any change in that authorization to a point that imagery would not be desired at that point (i.e. snow falls after authorization given). Most areas should be basically clear of snow. Minor snow piles or embankments in non-critical areas, such as bases of trees, may be acceptable.
Trees	Deciduous trees free of leaves	State/EC to Authorize acquisition in writing (email acceptable). Recommendation is for trees to be relatively free of leaves. Certain ornamental trees may leaf-on unusually early and typically are not disqualifying. Requirement may otherwise be loosened at State's/EC option per contract in such as open fields, pine forest, and urban areas. Contractor will provide its professional opinion for consideration by the stakeholders.
Streams and Rivers	Within natural banks	State/EC to report any unusual conditions that have or have the potential to cause flooding. State/EC will notify Contractor of significant rain events and any observed flooding.
Lakes	Free of ice	State/EC to Authorize acquisition in writing (email acceptable). Some ice on lakes may be allowed if other conditions are favorable
Roadways	Not wet from recent precipitation	State/EC to report any unusual conditions not caused by ordinary, observable weather phenomena.



2.0 Areas of Interest

Areas of interest (AOIs) shall be identified by the state's tiling index, typically by County. If an AOI includes an island within the Great Lakes, the island shall be flown and processed like any other land area. AOIs totaling the desired number of square miles shall be identified by the State and provided via an ESRI shapefile.

3.0 Quality Assurance Provisions (QA)

3.1 General

Independent quality checks shall be performed to certify the accuracy of the product and conformance to image quality specifications. Specific inspections shall be carried out at appropriate image scale and frequency to verify the Image Quality requirements.

3.2 Visual Inspection for Specific Artifacts

All Image Quality Requirements in Sections 1.2.1, 1.2.2, 1.2.3, 1.2.4, and 1.2.5 shall be inspected at a scale of 400 feet per inch or larger. Seam lines, glints, color balance, DEM artifacts, and bridges on roadways shall be addressed in this inspection, and artifacts noticeable at this scale shall be corrected. In urban areas, a scale of 200 feet per inch or larger shall be used for inspection.

Linear or hard-edge features along seamlines are to be inspected at 200-foot scale or larger on all imagery. These features include, but are not limited to: roads, railroads, vehicular trails (two-tracks), field lines, watercourses, lake shorelines, coniferous forest stands, and breaks between maintained lawns and natural fields in rural areas. Misalignments shall be corrected.

3.3 Customer QA/QC

Contractor shall provide a secure online internet QA/QC application. In addition, an ESRI ArcGIS server service, or an OGC WMS image service shall be made available to allow internet access to near lossless full-scale viewing of the orthoimagery. The intent is to eliminate the need to ship vast amounts of data on portable media to the State and State Partners for the purpose of error identification and the verification of corrections. Tile boundaries and seamline boundaries shall be displayed. The application shall provide timely access to data processed for this project. Imagery shall become available for viewing with the completion of the first AOI and a 2-week time period will be designated for each AOI to be available for review by the State. Imagery made available for review shall be fully processed and shall have passed the contractor quality control process. The application shall allow project stakeholders the ability to review orthoimagery, identify and attribute items in-question for discussion with both the State's Project Manager and the PM of the Contractor. The service shall be available during the term of the Contract. Bidder shall provide a description of the software to be used for this service.

3.4 Warranty Against Image Defects

Defects in imagery that are reported by the customer during the customer Quality Control (QC) period shall be corrected by re-acquisition and/or re-processing. Defects in image processing reported by the customer within 12 months of the delivery of final deliverables shall be corrected by re-processing.



4.0 Deliverables

4.1 Hard Drives

All GeoTIFF image tiles must be organized into one sub-directory per County and items identified in Section 6.0, Additional Deliverables, of this attachment must be delivered to SOM via non-returnable external hard drive. Also, each State Partner must receive a non-returnable external hard drive with the same deliverables for their AOI. State Partner contact shipping information to be provided by State's Project Manager.

4.2 Delivery schedule

Final corrected imagery along with all peripherals listed in Section 6 for each season shall be delivered to the State and State Partners within 5 months of the end of the applicable flying season. This time period includes the 2-week period designated for each AOI to be reviewed by the customer per section 3.3 above.

4.3 Compressed Mosaic

A compressed image mosaic for each County to be created and delivered in an agreed upon file format.

5.0 Buy-up Options

5.1 High Resolution Areas (HRA)

In addition to 12-inch (0.30 meter) GSD imagery, the contractor will provide separate pricing for data collection at a GSD of 6-inch (0.15 meters) and a GSD of 3-inch (0.075 meters). The State of Michigan or its State Partners may elect to collect portions of an AOI at 12-inch (0.30 meter) GSD and other portions within that AOI at either 6-inch (0.15 meter) GSD and/or 3-inch (0.075 meter) GSD.

Spatial resolution shall match GSD \pm 10%. If this option is chosen for an AOI the area will be imaged at 6-inch or 3-inch resolution, rather than, or in addition to, the 12-inch resolution. Contractor is encouraged to propose additional high-resolution options.

SOM will provide an ESRI shapefile with the tiles from the tile index defining HRA areas.

HRAs will meet the same image quality requirements as 12-inch (0.30 meter) GSD AOIs.

5.2 True Ortho Areas (TOA)

The contractor will provide separate pricing for true ortho data to be collected with \ge 80% in track overlap and \ge 80% sidelap.

SOM will provide an ESRI shapefile with the tiles from the tile index defining TOAs.

TOAs will meet the same image quality requirements as 12-inch (0.30 meter) GSD AOIs.



6.0 Additional Deliverables at no cost to the SOM for 100% of each AOI

6.1 ESRI Shapefiles

To be delivered in the same coordinate system as the orthoimagery.

6.1.1 Tile index

A polygon shapefile of the image tile boundaries shall be provided. Each polygon will have a name attribute that corresponds with the individual image name. IE: 021_2016_03_26_2565_0180

6.1.2 Flight lines

A flight diagram or flight index that illustrates the project area outline, the location of the flight lines and the approximate location of image centers, if relevant, shall be included as a deliverable. Flight lines and image centers shall be attributed with the acquisition date.

6.1.3 Vector seam index

A shapefile representing the vectors used during the image seaming process shall be provided with a flight date attribute.

6.2 Updated Elevation Data

Elevation data created or modified for use in the ortho-rectification process shall be provided in a nonproprietary mutually agreeable format.

6.3 Sensor Station Control

6.3.1 Airborne Global Positioning System (AGPS)

Positional data and statistical summary report shall be submitted in a nonproprietary, mutually agreeable format. In addition, the contractor shall produce a statistical report summarizing the results of the AGPS adjustment.

6.3.2 Internal Measurement Unit (IMU) Data

If IMU exterior orientation data are part of the contractor's technical proposal, the contractor shall submit this sensor orientation data and a statistical summary report in a nonproprietary, mutually agreeable format. The contractor also shall produce a statistical report summarizing the overall accuracy of the adjusted IMU data.

6.4 Supplemental Ground Control

Conventionally surveyed or differentially corrected GPS Ground Control points collected per Section 1.2.6 and used to supplement the AGPS positional data shall be delivered in a nonproprietary, mutually agreed upon format.



6.5 Independent Check Points

Check points collected per section 1.2.6 shall be delivered in a nonproprietary, mutually agreed upon format.

6.6 Final Report

An annual final report with agreed upon content and an agreed upon format. See the subjects listed below as examples of information to be included.

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Project Overview Technical Narrative of Processes, Obstacles, and Outcomes Summary of Planned Flight Parameters Michigan County Project Area Map Summary of Flight Metrics Digital Camera, Airborne GPS-IMU, and Aircraft Systems Flight Management Software Flight Logs per Lift GIS Shapefiles of Actual Flight Data Camera Calibration Files GPS-IMU Post Processed Data in Excel Format Daily Imagery Acquisition Summary Report List of Electronic Files



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Department of Technology, Management, and Budget

320 S. WALNUT ST., LANSING, MICHIGAN 48933 P.O. BOX 30026 LANSING, MICHIGAN 48909

CONTRACT CHANGE NOTICE

Change Notice Number 2

to Contract Number 21000001083

THE SANBORN MAP COMPANY, INC.	z P	Everett Root	DTMB
1935 Jamboree Drive, Suite 100	Program Manage	517-335-7180	
Colorado Springs, CO 80920	n er ST/	roote@michigan.gov	
Brad Arshat	Adm	Sean Regan	DTMB
(443) 603-7725	Contract ministrato	(517) 243-8459	
barshat@sanborn.com	rator	regans@michigan.gov	
CV0002134			

CONTRACT SUMMARY								
OPTIONAL IMAGERY HOSTING SERVICE								
INITIAL EFFECTIVE DATE	INITIAL EFFECTIVE DATE INITIAL EXPIRATION DATE			INITIAL AVAILABLE OPTIONS EXPIRATION DATE BEFORE				
March 1, 2021	February 28, 2	2024	5 - 1 Year		July 31, 2025			
PAYM	IENT TERMS		DELIVERY TI	DELIVERY TIMEFRAME				
	ALTERNATE PAYM	ENT OPTION	IS	EXT	TENDED PURCHASING			
□ P-Card	□ P-Card □ PRC □ Other			X	Yes 🗆 No			
MINIMUM DELIVERY REQUIR	REMENTS							
	DES	CRIPTION O	F CHANGE NOTICE					
OPTION LENGT	H OF OPTION E	XTENSION	LENGTH OF EXTENSION		REVISED EXP. DATE			
					July 31, 2025			
CURRENT VALUE	CURRENT VALUE VALUE OF CHANGE NOTICE ESTIMATED AGGREGATE CONTRACT VALUE							
\$180,000.00	\$9,757.58		\$189,757.58					
	DESCRIPTION							
Effective September 14, 2022, EGLE is adding \$9,757.58 to the Contract for a pilot project to determine the best method and delivery of scanned geo-located images of historic paper imagery.								

All other terms, conditions, specifications, and pricing remain the same. Per contractor, agency and DTMB Central Procurement Services.



STATE OF MICHIGAN CENTRAL PROCUREMENT SERVICES

Department of Technology, Management, and Budget

320 S. WALNUT ST., LANSING, MICHIGAN 48933 P.O. BOX 30026 LANSING, MICHIGAN 48909

CONTRACT CHANGE NOTICE

Change Notice Number 1

to

Contract Number 210000001083

THE SANBORN MAP COMPANY, INC.	2 2	Everett Root	DTMB	
1935 Jamboree Drive, Suite 100	g	517-335-7180		
Colorado Springs, CO 80920	er STA	roote@michigan.gov		
Brad Arshat	Con Admi	Sean Regan	DTMB	
(443) 603-7725	inistrato	(517) 284-6993		
barshat@sanborn.com	rator	regans@michigan.gov		
CV0002134				

CONTRACT SUMMARY					
OPTIONAL IMAGERY HOSTING SERVICE					
INITIAL EFFECTIVE DATI	INITIAL EXPIRATION DATE		INITIAL AVAILABLE OPTIONS		EXPIRATION DATE BEFORE
March 1, 2021	February 28, 2024		5 - 1 Year		February 28, 2024
PAYMENT TERMS			DELIVERY TIMEFRAME		
ALTERNATE PAYMENT OPTIONS				EXTENDED PURCHASING	
P-Card PRC Other				🛛 Yes 🛛 No	
MINIMUM DELIVERY REQUIREMENTS					
DESCRIPTION OF CHANGE NOTICE					
OPTION LENGTH OF OPTION		EXTENSION	LENGTH OF EXTENSION		REVISED EXP. DATE
☑ 17 Months					July 31, 2025
CURRENT VALUE VALUE OF CHANGE NOTICE		ESTIMATED AGGREGATE CONTRACT VALUE			
\$0.00 \$180,000.00).00	\$180,000.00		
DESCRIPTION					
Effective 8/5/22, this Contract is hereby increased by \$180,000 and the following amendment is incorporated to continue support of the Michigan GeoData Explorer Lidar viewer. Cost of the project is \$60,000 per year for 3 years. Additionally, a 17-month					

option available on this Contract is hereby exercised to extend the Contract to 7/31/2025.

All other terms, conditions, specifications, and pricing remain the same. Per contractor, agency and DTMB procurement.



Corporate Headquarters 1935 Jamboree Drive Suite 100 Colorado Springs, CO 80920 Phone: 719.593.0093 Toll-Free: 1.866.726.2676 Fax: 719.528.5093 www.sanborn.com

July 15, 2022

Mr. Everett Root Outreach Specialist Center for Shared Solutions & Technology Partnerships Department of Technology, Management and Budget State of Michigan 111 S. Capitol Ave., 10th Floor Romney Lansing, MI 48933 Email: RootE@michigan.gov

Re: Quotation for Continued Annual Maintenance for the Lidar GeoDataExplorer application, Contract# No. 210000001083

Dear Mr. Root:

The Sanborn Map Company, Inc. (Sanborn) is pleased to continue our partnership with the State of Michigan in the MISAIL program. We are submitting our quotation for Continued Annual Maintenance for the Lidar GeoDataExplorer application, in keeping with all provisions of the contract governing this program. The proposed scope of services is as follows:

- 5 Gbi internet connection
- Data storage & backup
- Bi-annual Security Scan
- Uptime Monitoring
- Error/ Performance Monitoring
- Caching and loading of new data
- Software upgrades (Geodata Explorer app)
- Documentation upgrades
- System upgrades and patches (VM Ubuntu)

The period of performance shall be Three (3) Calendar Years from the date of executed purchase order with options for Two (2) additional One (1) Year extensions.

Fees

The annual fee for the scope of services as outlined above is as follows:

Proposed A	Annual Fees
Scope	Fee
Item 1: Hosting and Internet Bandwidth	\$48,000.00
Item 2: General Software Maintenance - Bug	\$12,000.00
Fixes and Support	
Total Fee:	\$60,000.00



STATE OF MICHIGAN PROCUREMENT

Department of Technology, Management, and Budget 525 W. Allegan, Lansing, MI 48933

NOTICE OF CONTRACT

NOTICE OF CONTRACT NO. 210000001083

between

THE STATE OF MICHIGAN

and

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C

1935 Jamboree Drive, Suite 100 Colorado Springs, CO 80920 Brad Arshat

The Sanborn Map Company, Inc.

(443) 603-7725

(110)0001120

barshat@sanborn.com

CV0002134

		Everett Root	DTMB
	Program Manager	517-335-7180	
ЛЕ	₽₹	roote@michigan.gov	
STAT	t ator	Sean Regan	DTMB
	Contract Administrator	517-243-8459	
	C Adm	regans@michigan.gov	

CONTRACT SUMMARY					
DESCRIPTION: Optional Imagery Hosting Service					
INITIAL EFFECTIVE DATE	INITIAL EXPIRATION DATE	INITIAL AVAILABLE OPTIONS	EXPIRATION DATE BEFORE CHANGE(S) NOTED BELOW		
3/1/2021	2/28/2024	5, 1 Year			
PAYMENT	TERMS	D	ELIVERY TIMEFRAME		
Net 45	Net 45				
ALTERNATE PAYMENT OPTIONS	6		EXTENDED PURCHASING		
□ P-card □ F	Payment Request (PRC)	□ Other	⊠ Yes	□ No	
MINIMUM DELIVERY REQUIREM	MINIMUM DELIVERY REQUIREMENTS				
MISCELLANEOUS INFORMATION	١				
ESTIMATED CONTRACT VALUE	AT TIME OF EXECUTION				\$0.00

FOR THE CONTRACTOR:

Company Name

Authorized Agent Signature

Authorized Agent (Print or Type)

Date

FOR THE STATE:

Signature

Name & Title

Agency

Date

STATE OF MICHIGAN

CONTRACT TERMS

This STANDARD CONTRACT ("**Contract**") is agreed to between the State of Michigan (the "**State**") and [Insert Company Name] ("**Contractor**"), a [Insert State & Entity Status, e.g., a Michigan corporation or a Texas limited liability company]. This Contract is effective on [Month, Day, Year] ("**Effective Date**"), and unless terminated, expires on [Month, Day, Year].

This Contract may be renewed for up to [Insert # of Renewal Options] additional [Insert # of Years Per Renewal Option] year period(s). Renewal is at the sole discretion of the State and will automatically extend the Term of this Contract. The State will document its exercise of renewal options via Contract Change Notice.]

1. Definitions. For the purposes of this Contract, the following terms have the following meanings:

"Accept" has the meaning set forth in Section 20.

"Acceptance" has the meaning set forth in Section 20.

"Affiliate" of a Person means any other Person that directly or indirectly, through one or more intermediaries, controls, is controlled by, or is under common control with, such Person. For purposes of this definition, the term "control" (including the terms "controlled by" and "under common control with") means the direct or indirect ownership of more than fifty percent (50%) of the voting securities of a Person.

"Allegedly Infringing Materials" has the meaning set forth in Section 33.

"Business Day" means a day other than a Saturday, Sunday or other day on which the State is authorized or required by Law to be closed for business.

"Business Owner" is the individual appointed by the agency buyer to (a) act as the agency's representative in all matters relating to the Contract, and (b) co-sign off on notice of Acceptance. The Business Owner will be identified in the Statement of Work.

"Change" has the meaning set forth in Section 5.

"Change Notice" has the meaning set forth in Section 5.

"Change Proposal" has the meaning set forth in Section 5.

"Change Request" has the meaning set forth in **Section 5**.

"Confidential Information" has the meaning set forth in Section 37.a.

"Configuration" means State-specific changes made to the Software without Source Code or structural data model changes occurring.

"Contract" has the meaning set forth in the preamble.

"Contract Activities" refers to the includes the Services, Deliverables, delivery of commodities, or other contractual requirements set forth in Schedule A – Statement of Work, including any subsequent Statement(s) of Work, that the Contractor agrees to provide and the State agrees to purchase pursuant to the terms of this Contract.

"Contract Administrator" is the individual appointed by each party to (a) administer the terms of this Contract, and (b) approve any Change Notices under this Contract. Each party's Contract Administrator will be identified in the Statement of Work.

"Contractor" has the meaning set forth in the preamble.

"Contractor's Bid Response" means the Contractor's proposal submitted in response to the State's requests to obtain Contract Activities.

"Contractor Personnel" means all employees of Contractor or any Permitted Subcontractors involved in the performance of Services hereunder.

"Deliverables" means all materials, including, but not limited to Software, Documentation, written materials and commodities including without limitation images or image files of any kind or type, that Contractor is required to or otherwise does provide to the State under this Contract and otherwise in connection with any Services, including all items specifically identified as Deliverables in Schedule A - Statement of Work.

"Dispute Resolution Procedure" has the meaning set forth in Section 50.

"Documentation" means all generally available documentation relating to the Software, including all user manuals, operating manuals and other instructions, specifications, documents and materials, in any form or media, that describe any component, feature, requirement or other aspect of the Software or Hosted Services (as defined in **Schedule D**), including any functionality, testing, operation or use thereof.

"DTMB" means the Michigan Department of Technology, Management and Budget.

"Effective Date" has the meaning set forth in the preamble.

"Fees" means collectively all fees collected by the Contractor pursuant to the terms of this Contract.

"Financial Audit Period" has the meaning set forth in Section 39.

"Force Majeure" has the meaning set forth in Section 49.

"HIPAA" has the meaning set forth in Section 44.

"Intellectual Property Rights" means all or any of the following: (a) patents, patent disclosures, and inventions (whether patentable or not); (b) trademarks, service marks, trade dress, trade names, logos, corporate names, and domain names, together with all of the associated goodwill; (c) copyrights and copyrightable works (including computer programs), mask works and rights in data and databases; (d) trade secrets, know-how and other confidential information; and (e) all other intellectual property rights, in each case whether registered or unregistered and including all applications for, and renewals or extensions of, such rights, and all similar or equivalent rights or forms of protection provided by applicable Law in any jurisdiction throughout the world.

"Law" means any statute, law, ordinance, regulation, rule, code, order, constitution, treaty, common law, judgment, decree or other requirement or rule of any federal, state, local or foreign government or political subdivision thereof, or any arbitrator, court or tribunal of competent jurisdiction.

"Loss or Losses" means all losses, damages, liabilities, deficiencies, claims, actions, judgments, settlements, interest, awards, penalties, fines, costs or expenses of whatever kind, including reasonable attorneys' fees and the costs of enforcing any right to indemnification hereunder and the cost of pursuing any insurance providers.

"Maintenance Release" means any update, upgrade, release or other adaptation or modification of the Software, including any updated Documentation, that Contractor may generally provide to its licensees from time to time during the Term, which may contain, among other things, error corrections, enhancements, improvements or other changes to the user interface, functionality, compatibility, capabilities, performance, efficiency or quality of the Software.

"New Version" means any new version of the Software that the Contractor may from time to time introduce and market generally as a distinct licensed product, as may be indicated by Contractor's designation of a new version number.

"PAT" means a document or product accessibility template, including any Information Technology Industry Council Voluntary Product Accessibility Template or VPAT®, that specifies how information and software products, such as websites, applications, software and associated content, conform to WCAG 2.0 Level AA.

"Permitted Subcontractor" has the meaning set forth in Section 13.

"Person" means an individual, corporation, partnership, joint venture, limited liability company, governmental authority, unincorporated organization, trust, association or other entity.

"Pricing" means any and all fees, rates and prices payable under this Contract, including pursuant to any Schedule or Exhibit hereto.

"Pricing Schedule" means the schedule attached as Schedule B, setting forth the Fees, rates and Pricing payable under this Contract.

"**Project Manager**" is the individual appointed by each party to (a) monitor and coordinate the day-to-day activities of this Contract, and (b) for the State, to co-sign off on its notice of Acceptance of the Deliverables. Each party's Project Manager will be identified in the Statement of Work.

"Representatives" means a party's employees, officers, directors, partners, shareholders, agents, attorneys, successors and permitted assigns.

"RFP" means the State's request designed to solicit responses for Contract Activities under this Contract.

"Software" means Contractor's software set forth in the Statement of Work, and any Maintenance Releases or New Versions provided to the State and any Configurations made by or for the State pursuant to this Contract, and all copies of the foregoing permitted under this Contract and the License Agreement.

"Services" means any of the services Contractor is required to or otherwise does provide under this Contract, Schedule A -Statement of Work, Schedule C– Contractor Hosted Software and Services (if applicable). "Source Code" means the human readable source code of the Software to which it relates, in the programming language in which the Software was written, together with all related flow charts and technical documentation, including a description of the procedure for generating object code, all of a level sufficient to enable a programmer reasonably fluent in such programming language to understand, build, operate, support, maintain and develop modifications, upgrades, updates, adaptations, enhancements, new versions and other derivative works and improvements of, and to develop computer programs compatible with, the Software.

"Site" means the physical location designated by the State in, or in accordance with, this Contract or the Statement of Work for delivery or installation of the Contract Activities.

"State" means the State of Michigan.

"State Data" has the meaning set forth in Section 36.a.

"State Materials" means all materials and information, including equipment, documents, data, know-how, ideas, methodologies, specifications, software, content and technology, in any form or media, directly or indirectly provided or made available to Contractor by or on behalf of the State in connection with this Contract.

"Statement of Work" means any statement of work entered into by the parties and attached as a schedule to this Contract. The initial Statement of Work is attached as **Schedule A**, and subsequent Statements of Work shall be sequentially identified and attached as Schedules A-1, A-2, A-3, etc.

"Stop Work Order" has the meaning set forth in Section 27.

"Term" has the meaning set forth in the preamble.

"Third-Party" means any Person other than the State or Contractor.

"Transition Period" has the meaning set forth in Section 31.

"Transition Responsibilities" has the meaning set forth in Section 31.

"Unauthorized Removal" has the meaning set forth in Section 15.

"Unauthorized Removal Credit" has the meaning set forth in Section 15.

"User Data" means any and all information reflecting the access or use of the Hosted Services by or on behalf of the State or any Authorized User, including any end user profile, visit, session, impression, metadata, click-through or click-stream data and any statistical or other analysis, information or data based on or derived from any of the foregoing.

"Warranty Period" means the period set forth in Schedule A, the Statement of Work, commencing on the date of acceptance of all Deliverables purchased pursuant to the terms of this Contract.

"WCAG 2.0 Level AA" means level AA of the World Wide Web Consortium Web Content Accessibility Guidelines version 2.0.

"Work Product" means all State-specific deliverables that Contractor is required to, or otherwise does, provide to the State under this Contract including but not limited to any images or image files of any kind or nature, application programming interfaces, written materials, computer scripts, software configuration, software customization, APIs, macros, user interfaces, reports, project management documents, forms, templates, and other State-specific documents and related materials together with all ideas, concepts, processes, and methodologies developed in connection with this Contract whether or not embodied in this Contract. Work Product does not include software.

2. Duties of Contractor. Contractor must perform the Services and provide the Deliverables described in Schedule A – Statement of Work. An obligation to provide delivery of any commodity is considered a service and is a Contract Activity.

Contractor must furnish all labor, equipment, materials, and supplies necessary for the performance of the Contract Activities, and meet operational standards, unless otherwise specified in **Schedule A**.

Contractor must also be clearly identifiable while on State property by wearing identification issued by the State, and clearly identify themselves whenever making contact with the State.

- 3. Statement(s) of Work. Contractor shall provide the Contract Activities pursuant to Statements of Work entered into under this Contract. No Statement of Work shall be effective unless signed by each party's Contract Administrator. The term of each Statement of Work shall commence on the parties' full execution of the Statement of Work and terminate when the parties have fully performed their obligations. The terms and conditions of this Contract will apply at all times to any Statements of Work entered into by the parties and attached as a schedule to this Contract. The State shall have the right to terminate such Statement of Work as set forth in Sections 28 and 29. Contractor acknowledges that time is of the essence with respect to Contractor's obligations under each Statement of Work and agrees that prompt and timely performance of all such obligations in accordance with this Contract and the Statements of Work is strictly required.
- 4. Statement of Work Requirements. Each Statement of Work may include the following: (a) names and contact information for Contractor's Contract Administrator, Project Manager and other personnel; (b) names and contact information for the State's Contract Administrator, Project Manager and Business Owner; (c) a detailed description of the Services to be provided under this Contract, including any training obligations of Contractor; (d) a detailed description of the Deliverables to be provided under this Contract; (e) a description of all liquidated damages associated with this Contract, if any; and (f) a detailed description of all State Resources, if any, required to complete the Implementation Plan, if such a Plan is necessary.
- 5. Change Control Process. The State may at any time request in writing (each, a "Change Request") changes to the Statement of Work, including changes to the Contract Activities (each, a "Change"). Upon the State's submission of a Change Request, the parties will evaluate and implement all Changes in accordance with this Section 5. No Change will be effective until the parties have executed a Change Notice. Except as the State may request in its Change Request or otherwise in writing, Contractor must continue to perform its obligations in accordance with the Statement of Work pending negotiation and execution of a Change Notice. Contractor will use its best efforts to limit any delays or Fee increases from any Change to those necessary to perform the Change in accordance with the applicable Change Notice. Contractor may, on its own initiative and at its own expense, prepare and submit its own Change Request to the State. However, the State will be under no obligation to approve or otherwise respond to a Change Request initiated by Contractor.

This Contract may not be amended except by signed agreement between the parties (a "**Contract Change Notice**"). Notwithstanding the foregoing, no subsequent Statement of Work or Contract Change Notice executed after the Effective Date will be construed to amend this Contract unless it specifically states its intent to do so and cites the section or sections amended

6. Notices. All notices and other communications required or permitted under this Contract must be in writing and will be considered given and received: (a) when verified by written receipt if sent by courier; (b) when actually received if sent by mail without verification of receipt; or (c) when verified by automated receipt or electronic logs if sent by facsimile or email.

If to Contractor:
[Name]
[Street Address]
[City, State, Zip]
[Email]
[Phone]
-

7. Performance Guarantee. Contractor must at all times have financial resources sufficient, in the opinion of the State, to ensure performance of the Contract and must provide proof upon request. The State may require a performance bond (as specified in Schedule A) if, in the opinion of the State, it will ensure performance of the Contract.

8. Insurance Requirements. Contractor, at its sole expense, must maintain the insurance coverage identified below. All required insurance must: (i) protect the State from claims that arise out of, are alleged to arise out of, or otherwise result from Contractor's or subcontractor's performance; (ii) be primary and non-contributing to any comparable liability insurance (including self-insurance) carried by the State; and (iii) be provided by a company with an A.M. Best rating of "A-" or better, and a financial size of VII or better.

Required Limits	Additional Requirements			
Commercial General Liability Insurance				
Minimum Limits:	Contractor must have their policy endorsed to add "the State of			
\$1,000,000 Each Occurrence	Michigan, its departments, divisions, agencies, offices, commissions,			
\$1,000,000 Personal & Advertising Injury	officers, employees, and agents" as additional insureds using			
\$2,000,000 General Aggregate	endorsement CG 20 10 11 85, or both CG 2010 07 04 and CG 2037			
\$2,000,000 Products/Completed Operations	07 04.			
Automobile Li	ability Insurance			
Minimum Limits:	Contractor must have their policy: (1) endorsed to add "the State of			
\$1,000,000 Per Accident	(1) endorsed to add the State of Michigan, its departments, divisions, agencies, offices, commissions, officers, employees, and agents" as additional insureds; and (2) include Hired and Non-Owned Automobile coverage.			
workers' Compe	ensation Insurance			
Minimum Limits:	Waiver of subrogation, except where waiver is prohibited by law.			
Coverage according to applicable laws governing work activities				
Employers Liability Insurance				
Minimum Limits:				
\$500,000 Each Accident				
\$500,000 Each Employee by Disease				
\$500,000 Aggregate Disease				

If any required policies provide claims-made coverage, the Contractor must: (i) provide coverage with a retroactive date before the Effective Date of the Contract or the beginning of Contract Activities; (ii) maintain coverage and provide evidence of coverage for at least three (3) years after completion of the Contract Activities; and (iii) if coverage is cancelled or not renewed, and not replaced with another claims-made policy form with a retroactive date prior to the Effective Date of this Contract, Contractor must purchase extended reporting coverage for a minimum of three (3) years after completion of work.

Contractor must: (i) provide insurance certificates to the Contract Administrator, containing the agreement or delivery order number, at Contract formation and within twenty (20) calendar days of the expiration date of the applicable policies; (ii) require that subcontractors maintain the required insurances contained in this Section; (iii) notify the Contract Administrator within five (5) business days if any policy is cancelled; and (iv) waive all rights against the State for damages covered by insurance. Failure to maintain the required insurance does not limit this waiver.

This Section is not intended to and is not to be construed in any manner as waiving, restricting or limiting the liability of either party for any obligations under this Contract (including any provisions hereof requiring Contractor to indemnify, defend and hold harmless the State).

9. Administrative Fee and Reporting. Contractor must pay an administrative fee of 1% on all payments made to Contractor under the Contract including transactions with the State (including its departments, divisions, agencies, offices, and commissions), MiDEAL members, and other states (including governmental subdivisions and authorized entities). Administrative fee payments must be made by check payable to the State of Michigan and mailed to:

Department of Technology, Management and Budget

Cashiering

P.O. Box 30681

Lansing, MI 48909

Contractor must submit an itemized purchasing activity report, which includes at a minimum, the name of the purchasing entity and the total dollar volume in sales. Reports should be mailed to MiDeal@michigan.gov.

The administrative fee and purchasing activity report are due within 30 calendar days from the last day of each calendar quarter.

10. Extended Purchasing Program. This contract is extended to MiDEAL members. MiDEAL members include local units of government, school districts, universities, community colleges, and nonprofit hospitals. A current list of MiDEAL members is available at <u>www.michigan.gov/mideal</u>. Upon written agreement between the State and Contractor, this contract may also be extended to: (a) State of Michigan employees and (b) other states (including governmental subdivisions and authorized entities).

If extended, Contractor must supply all Contract Activities at the established Contract prices and terms. The State reserves the right to impose an administrative fee and negotiate additional discounts based on any increased volume generated by such extensions.

Contractor must submit invoices to, and receive payment from, extended purchasing program members on a direct and individual basis.

- 11. Independent Contractor. Contractor is an independent contractor and assumes all rights, obligations and liabilities set forth in this Contract. Contractor, its employees, and agents will not be considered employees of the State. No partnership or joint venture relationship is created by virtue of this Contract. Contractor, and not the State, is responsible for the payment of wages, benefits and taxes of Contractor's employees and any subcontractors. Prior performance does not modify Contractor's status as an independent contractor.
- 12. Intellectual Property Rights. Contractor hereby acknowledges that the State is and will be the sole and exclusive owner of all right, title, and interest in the Work Product produced as part of the Contract Activities, and all associated intellectual property rights, if any. In general, Work Product constitutes works made for hire as defined in Section 101 of the Copyright Act of 1976. To the extent any Work Product, and related intellectual property do not qualify as works made for hire under the Copyright Act, Contractor will, and hereby does,

immediately on its creation, assign, transfer and otherwise convey to the State, irrevocably and in perpetuity, throughout the universe, all right, title and interest in and to the Work Product, including all intellectual property rights therein. Contractor also irrevocably waives any and all claims Contractor may have now or hereafter have in any jurisdiction to so called "moral rights" or rights of *droit moral* with respect to the Work Product. If Contract Activities includes the purchase or use of software, such purchase, use, or access to Software shall be subject to **Schedules C**, **D**, **or E** of this Contract, as applicable. Notwithstanding any other provision of this Contract, the Sanborn Software (the "licensed Products") is expressly subject to the terms and conditions contained in the Sanborn Software End-User License Agreement (attached hereto and incorporated herein) governing its use.

- 13. Subcontracting. Contractor will not, without the prior written approval of the State, which consent may be given or withheld in the State's sole discretion, engage any Third-Party to perform Services. The State's approval of any such Third-Party (each approved Third-Party, a "Permitted Subcontractor") does not relieve Contractor of its representations, warranties or obligations under this Contract. Without limiting the foregoing, Contractor will: (a) be responsible and liable for the acts and omissions of each such Permitted Subcontractor (including such Permitted Subcontractor's employees who, to the extent providing Services or Deliverables, shall be deemed Contractor Personnel) to the same extent as if such acts or omissions were by Contractor or its employees; (b) name the State a third-party beneficiary under Contractor's Contract with each Permitted Subcontractor in connection with this Contract, including, if applicable, withholding of income taxes, and the payment and withholding of social security and other payroll taxes, unemployment insurance, workers' compensation insurance payments and disability benefits; and (d) notify the State of the location of the Permitted Subcontractor and indicate if it is located within the continental United States.
- 14. Staffing. Contractor is solely responsible for all Contractor Personnel and for the payment of their compensation, including, if applicable, withholding of income taxes, and the payment and withholding of social security and other payroll taxes, unemployment insurance, workers' compensation insurance payments and disability benefits. The State's Contract Administrator may require Contractor to remove or reassign personnel by providing a notice to Contractor.

15. RESERVED

- 16. Background Checks. Pursuant to Michigan law, all agencies subject to IRS Pub. 1075 are required to ask the Michigan State Police to perform fingerprint background checks on all employees, including Contractor and Subcontractor employees, who may have access to any database of information maintained by the federal government that contains confidential or personal information, including, but not limited to, federal tax information. Further, pursuant to Michigan Iaw, any agency described above is prohibited from providing Contractors or Subcontractors with the result of such background check. For more information, please see Michigan Public Act 427 of 2018. Upon request, Contractor must perform background checks on all employees and subcontractors and its employees prior to their assignment. The scope is at the discretion of the State and documentation must be provided as requested. Contractor is responsible for all costs associated with the requested background checks. The State, in its sole discretion, may also perform background checks.
- 17. Assignment. Contractor may not assign this Contract to any other party without the prior approval of the State. Upon notice to Contractor, the State, in its sole discretion, may assign in whole or in part, its rights or responsibilities under this Contract to any other party. If the State determines that a novation of the Contract to a third-party is necessary, Contractor will agree to the novation and provide all necessary documentation and signatures.
- 18. Change of Control. Contractor will notify within 30 days of any public announcement, or otherwise once legally permitted to do so, the State of a change in Contractor's organizational structure or ownership. For purposes of this Contract, a change in control means any of the following: (a) a sale of more than 50% of Contractor's stock; (b) a sale of substantially all of Contractor's assets; (c) a change in a majority of Contractor's board members; (d) consummation of a merger or consolidation of Contractor with any other entity; (e) a change in ownership through a transaction or series of transactions; (f) or the board (or the stockholders) approves a plan of complete liquidation. A change of control does not include any consolidation or merger effected exclusively to change the domicile of Contractor, or any transaction or series of transactions principally for bona fide equity financing purposes.

In the event of a change of control, Contractor must require the successor to assume this Contract and all of its obligations under this Contract.

- 19. Ordering. Contractor is not authorized to begin performance until receipt of authorization as identified in Schedule A.
- 20. Acceptance. Unless otherwise provided in the Statement of Work or an applicable schedule, Contract Activities are subject to inspection and testing by the State within 30 calendar days of the State's receipt of them ("State Review Period"), unless otherwise provided in Schedule A. If the Contract Activities are not fully accepted by the State, the State will notify Contractor by the end of the State Review Period that either: (a) the Contract Activities are accepted, but noted deficiencies must be corrected; or (b) the Contract Activities are rejected. If the State finds material deficiencies, it may: (i) reject the Contract Activities without performing any further inspections; (ii) demand performance at no additional cost; or (iii) terminate this Contract in accordance with Section 28, Termination for Cause.

Within 10 business days from the date of Contractor's receipt of notification of acceptance with deficiencies or rejection of any Contract Activities, Contractor must cure, at no additional cost, the deficiency and deliver unequivocally acceptable Contract Activities to the State. If acceptance with deficiencies or rejection of the Contract Activities impacts the content or delivery of other non-completed Contract Activities, the parties' respective Program Managers must determine an agreed to number of days for re-submission that minimizes the overall impact to the Contract. However, nothing herein affects, alters, or relieves Contractor of its obligations to correct deficiencies in accordance with the time response standards set forth in this Contract.

If Contractor is unable or refuses to correct the deficiency within the time response standards set forth in this Contract, the State may cancel the order in whole or in part. The State, or a third-party identified by the State, may perform the Contract Activities and recover the difference between the cost to cure and the Contract price plus an additional 10% administrative fee.

- 21. Delivery. Contractor must deliver all applicable Contract Activities F.O.B. destination, within the State premises with transportation and handling charges paid by Contractor, unless otherwise specified in Schedule A. All containers and packaging become the State's exclusive property upon acceptance.
- 22. Risk of Loss and Title. Until final acceptance, title and risk of loss or damage to Contract Activities remains with Contractor. Contractor is responsible for filing, processing, and collecting all damage claims. The State will record and report to Contractor any evidence of visible damage. If the State rejects the Contract Activities, Contractor must remove them from the premises within 10 calendar days after notification of rejection. The risk of loss of rejected or non-conforming Contract Activities remains with Contractor. Rejected Contract Activities not removed by Contractor within 10 calendar days will be deemed abandoned by Contractor, and the State will have the right to dispose of it as its own property. Contractor must reimburse the State for costs and expenses incurred in storing or effecting removal or disposition of rejected Contract Activities.
- 23. Warranty Period. The warranty period, if applicable, for any Contractor Hosted Software is a fixed period commencing on the date specified in Schedule A. If the Contract Activities do not function as warranted during the warranty period, the State may reject or return such non-conforming Contractor Hosted Software to the Contractor for a full refund.
- 24. Terms of Payment. Invoices must conform to the requirements communicated from time-to-time by the State. All undisputed amounts are payable within 45 days of the State's receipt. Contractor may only charge for Contract Activities performed as specified in Schedule A. Invoices must include an itemized statement of all charges. The State is exempt from State sales tax for direct purchases and may be exempt from federal excise tax, if Services purchased under this Agreement are for the State's exclusive use. All prices are exclusive of taxes, and Contractor is responsible for all sales, use and excise taxes, and any other similar taxes, duties and charges of any kind imposed by any federal, state, or local governmental entity on any amounts payable by the State under this Contract.

The State has the right to withhold payment of any disputed amounts until the parties agree as to the validity of the disputed amount. The State will notify Contractor of any dispute within a reasonable time. Payment by the State will not constitute a waiver of any rights as to Contractor's continuing obligations, including claims for deficiencies or substandard Contract Activities. Contractor's acceptance of final payment by the State constitutes a waiver of all claims by Contractor against the State for payment under this Contract, other than those claims previously filed in writing on a timely basis and still disputed.

The State will only disburse payments under this Contract through Electronic Funds Transfer (EFT). Contractor must register with the State at http://www.michigan.gov/SIGMAVSS to receive electronic fund transfer payments. If Contractor does not register, the State is not liable for failure to provide payment. Without prejudice to any other right or remedy it may have, the State reserves the right to set off at any time any amount then due and owing to it by Contractor against any amount payable by the State to Contractor under this Contract.

25. Payment Disputes. The State may withhold from payment any and all payments and amounts the State disputes in good faith, pending resolution of such dispute, provided that the State: (a) timely renders all payments and amounts that are not in dispute; notifies Contractor of the dispute prior to the due date for payment, specifying in such notice: (i) the amount in dispute; and (ii) the reason for the dispute set out in sufficient detail to facilitate investigation by Contractor and resolution by the parties; (b) works with Contractor in good faith to resolve the dispute promptly; and (c) promptly pays any amount determined to be payable by resolution of the dispute.

Contractor shall not withhold any Contract Activities or fail to perform any obligation hereunder by reason of the State's good faith withholding of any payment or amount in accordance with this **Section 25** or any dispute arising therefrom.

- 26. Liquidated Damages. Liquidated damages, if applicable, will be assessed as described in Schedule A. Amounts due the State as liquidated damages may be set off against any Fees payable to Contractor under this Contract, or the State may bill Contractor as a separate item and Contractor will promptly make payments on such bills.
- 27. Stop Work Order. The State may suspend any or all activities under the Contract at any time. The State will provide Contractor a written stop work order detailing the suspension. Contractor must comply with the stop work order upon receipt. Within 90 calendar days, or any longer period agreed to by Contractor, the State will either: (a) issue a notice authorizing Contractor to resume work, or (b) terminate the

Contract or delivery order. The State will not pay for Contract Activities, Contractor's lost profits, or any additional compensation during a stop work period.

28. Termination for Cause. The State may terminate this Contract for cause, in whole or in part, if Contractor, as determined by the State: (a) endangers the value, integrity, or security of any location, data, or personnel; (b) becomes insolvent, petitions for bankruptcy court proceedings, or has an involuntary bankruptcy proceeding filed against it by any creditor; (c) engages in any conduct that may expose the State to liability; (d) breaches any of its material duties or obligations; or (e) fails to cure a breach within the time stated in a notice of breach. Any reference to specific breaches being material breaches within this Contract will not be construed to mean that other breaches are not material.

If the State terminates this Contract under this Section, the State will issue a termination notice specifying whether Contractor must: (a) cease performance immediately, or (b) continue to perform for a specified period. If it is later determined that Contractor was not in breach of the Contract, the termination will be deemed to have been a Termination for Convenience, effective as of the same date, and the rights and obligations of the parties will be limited to those provided in **Section 29**, Termination for Convenience.

The State will only pay for amounts due to Contractor for Contract Activities accepted by the State on or before the date of termination, subject to the State's right to set off any amounts owed by the Contractor for the State's reasonable costs in terminating this Contract. The Contractor must pay all reasonable costs incurred by the State in terminating this Contract for cause, including administrative costs, attorneys' fees, court costs, transition costs, and any costs the State incurs to procure the Contract Activities from other sources.

- 29. Termination for Convenience. The State may immediately terminate this Contract in whole or in part without penalty and for any reason, including but not limited to, appropriation or budget shortfalls. The termination notice will specify whether Contractor must: (a) cease performance of the Contract Activities immediately, or (b) continue to perform the Contract Activities in accordance with Section 30, Transition Responsibilities. If the State terminates this Contract for convenience, the State will pay all reasonable costs, as determined by the State, for State approved Transition Responsibilities.
- **30.** Effect of Termination. Upon and after the termination or expiration of this Contract or one or more Statements of Work for any or no reason: (a) Contractor will be obligated to perform all Transition Responsibilities specified in **Section 31**; (b) all licenses granted to Contractor in State Data will immediately and automatically also terminate. Contractor must promptly return to the State all State Data not required by Contractor for its Transition Responsibilities, if any; (c) Contractor will: (i) return to the State all documents and tangible materials (and any copies) containing, reflecting, incorporating, or based on the State's Confidential Information; (ii) permanently erase the State's Confidential Information from its computer systems; and (iii) certify in writing to the State that it has complied with the requirements of this **Section 30** in each case to the extent such materials are not required by Contractor for Transition Responsibilities, if any.
- 31. Transition Responsibilities. Upon termination or expiration of this Contract for any reason, Contractor must, for a period of time specified by the State (not to exceed 90 calendar days, "Transition Period"), provide all reasonable transition assistance requested by the State, to allow for the expired or terminated portion of the Contract Activities to continue without interruption or adverse effect, and to facilitate the orderly transfer of such Contract Activities to the State or its designees. Such transition assistance may include, but is not limited to: (a) continuing to perform the Contract Activities at the established Contract rates; (b) taking all reasonable and necessary measures to transition performance of the work, including all applicable Contract Activities, training, equipment, software, leases, reports and other documentation, to the State or the State's designee; (c) taking all necessary and appropriate steps, or such other action as the State may direct, to preserve, maintain, protect, or return to the State all materials, data, property, and confidential information provided directly or indirectly to Contractor by any entity, agent, vendor, or employee of the State; (d) transferring title in and delivering to the State, at the State's discretion, all completed or partially completed deliverables prepared under this Contract as of the Contract termination date; and (e) preparing an accurate accounting from which the State and Contractor may reconcile all outstanding accounts (collectively, "Transition Responsibilities"). This Contract will automatically be extended through the end of the transition period.
- **32. General Indemnification.** Contractor must defend, indemnify and hold the State, its departments, divisions, agencies, offices, commissions, officers, and employees harmless, without limitation, from and against any and all actions, claims, losses, liabilities, damages, costs, attorney fees, and expenses (including those required to establish the right to indemnification), arising out of or relating to: (a) any breach by Contractor (or any of Contractor's employees, agents, subcontractors, or by anyone else for whose acts any of them may be liable) of any of the promises, agreements, representations, warranties, or insurance requirements contained in this Contract; (b) any infringement, misappropriation, or other violation of any intellectual property right or other right of any third-party; (c) any bodily injury, death, or damage to real or tangible personal property occurring wholly or in part due to action or inaction by Contractor (or any of Contractor's employees, agents, subcontractors, or by anyone else for whose acts any of them may be liable); and (d) any acts or omissions of Contractor (or any of Contractor's employees, agents, subcontractors, or by anyone else for whose acts any of them may be liable).

The State will notify Contractor in writing if indemnification is sought; however, failure to do so will not relieve Contractor, except to the extent that Contractor is materially prejudiced. Contractor must, to the satisfaction of the State, demonstrate its financial ability to carry out these obligations.

The State is entitled to: (i) regular updates on proceeding status; (ii) participate in the defense of the proceeding; (iii) employ its own counsel; and to (iv) retain control of the defense if the State deems necessary. Contractor will not, without the State's written consent (not to be unreasonably withheld), settle, compromise, or consent to the entry of any judgment in or otherwise seek to terminate any claim, action, or proceeding. To the extent that any State employee, official, or law may be involved or challenged, the State may, at its own expense, control the defense of that portion of the claim.

Any litigation activity on behalf of the State, or any of its subdivisions under this Section, must be coordinated with the Department of Attorney General. An attorney designated to represent the State may not do so until approved by the Michigan Attorney General and appointed as a Special Assistant Attorney General.

- 33. Infringement Remedies. If, in either party's opinion, any piece of equipment, software, commodity, or service supplied by Contractor or its subcontractors, or its operation, use or reproduction, is likely to become the subject of a copyright, patent, trademark, or trade secret infringement claim, Contractor must, at its expense: (a) procure for the State the right to continue using the equipment, software, commodity, or service, or if this option is not reasonably available to Contractor, (b) replace or modify the same so that it becomes non-infringing; or (c) accept its return by the State with appropriate credits to the State against Contractor's charges and reimburse the State for any losses or costs incurred as a consequence of the State ceasing its use and returning it.
- **34.** Limitation of Liability and Disclaimer of Damages. THE STATE WILL NOT BE LIABLE, REGARDLESS OF THE FORM OF ACTION, WHETHER IN CONTRACT, TORT, NEGLIGENCE, STRICT LIABILITY OR BY STATUTE OR OTHERWISE, FOR ANY CLAIM RELATED TO OR ARISING UNDER THIS CONTRACT FOR CONSEQUENTIAL, INCIDENTAL, INDIRECT, OR SPECIAL DAMAGES, INCLUDING WITHOUT LIMITATION LOST PROFITS AND LOST BUSINESS OPPORTUNITIES. IN NO EVENT WILL THE STATE'S AGGREGATE LIABILITY TO CONTRACTOR UNDER THIS CONTRACT, REGARDLESS OF THE FORM OF ACTION, WHETHER IN CONTRACT, TORT, NEGLIGENCE, STRICT LIABILITY OR BY STATUTE OR OTHERWISE, FOR ANY CLAIM RELATED TO OR ARISING UNDER THIS CONTRACT, TORT BY STATUTE OR OTHERWISE, FOR ANY CLAIM RELATED TO OR ARISING UNDER THIS CONTRACT, EXCEED THE MAXIMUM AMOUNT OF FEES PAYABLE UNDER THIS CONTRACT.
- **35. Disclosure of Litigation, or Other Proceeding.** Contractor must notify the State within 14 calendar days of receiving notice of any litigation, investigation, arbitration, or other proceeding (collectively, "**Proceeding**") involving Contractor, a subcontractor, or an officer or director of Contractor or subcontractor, that arises during the term of the Contract, including: (a) a criminal Proceeding; (b) a parole or probation Proceeding; (c) a Proceeding under the Sarbanes-Oxley Act; (d) a civil Proceeding involving: (1) a claim that might reasonably be expected to adversely affect Contractor's viability or financial stability; or (2) a governmental or public entity's claim or written allegation of fraud; or (e) a Proceeding involving any license that Contractor is required to possess in order to perform under this Contract.
- **36.** State Data. If the Contract Activities includes the hosting of State Data with Contractor or Permitted Subcontractors, Contractor must also comply with Schedule D Data Hosting and Security for Hosted Software and Services of this Contract
 - a. <u>Ownership</u>. The State's data ("State Data," which will be treated by Contractor as Confidential Information) includes: (a) the State's data collected, used, processed, stored, or generated as the result of the Contract Activities; (b) personally identifiable information ("PII") collected, used, processed, stored, or generated as the result of the Contract Activities, including, without limitation, any information that identifies an individual, such as an individual's social security number or other government-issued identification number, date of birth, address, telephone number, biometric data, mother's maiden name, email address, credit card information, or an individual's name in combination with any other of the elements here listed; and, (c) personal health information ("PHI") collected, used, processed, stored, or generated as the result of the Contract Activities, which is defined under the Health Insurance Portability and Accountability Act (HIPAA) and its related rules and regulations. State Data is and will remain the sole and exclusive property of the State and all right, title, and interest in the same is reserved by the State. This Section survives the termination of this Contract.
 - b. <u>Contractor Use of State Data</u>. Contractor is provided a limited license to State Data for the sole and exclusive purpose of providing the Contract Activities, including a license to collect, process, store, generate, and display State Data only to the extent necessary in the provision of the Contract Activities. Contractor must: (a) keep and maintain State Data in strict confidence, using such degree of care as is appropriate and consistent with its obligations as further described in this Contract, applicable SOM PSP's, and applicable law to avoid unauthorized access, use, disclosure, or loss; (b) use and disclose State Data solely and exclusively for the purpose of providing the Contract Activities, such use and disclosure being in accordance with this Contract, any applicable State Data for Contractor's own purposes or for the benefit of anyone other than the State without the State's prior written consent. This Section survives the termination of this Contract.

- c. <u>Extraction of State Data</u>. Contractor must, within five (5) business days of the State's request, provide the State, without charge and without any conditions or contingencies whatsoever (including but not limited to the payment of any fees due to Contractor), an extract of the State Data in the format specified by the State.
- d. <u>Backup and Recovery of State Data</u>. Unless otherwise specified in Schedule A, Contractor is responsible for maintaining a backup of State Data and for an orderly and timely recovery of such data. Unless otherwise described in Schedule A, Contractor must maintain a contemporaneous backup of State Data that can be recovered within two (2) hours at any point in time.
- Loss or Compromise of Data. In the event of any act, error or omission, negligence, misconduct, or breach on the part of Contractor е that compromises or is suspected to compromise the security, confidentiality, or integrity of State Data or the physical, technical, administrative, or organizational safeguards put in place by Contractor that relate to the protection of the security, confidentiality, or integrity of State Data, Contractor must, as applicable: (a) notify the State as soon as practicable but no later than twenty-four (24) hours of becoming aware of such occurrence; (b) cooperate with the State in investigating the occurrence, including making available all relevant records, logs, files, data reporting, and other materials required to comply with applicable law or as otherwise required by the State; (c) in the case of PII or PHI, at the State's sole election, (i) with approval and assistance from the State, notify the affected individuals who comprise the PII or PHI as soon as practicable but no later than is required to comply with applicable law, or, in the absence of any legally required notification period, within five (5) calendar days of the occurrence; or (ii) reimburse the State for any costs in notifying the affected individuals; (d) in the case of PII, provide third-party credit and identity monitoring services to each of the affected individuals who comprise the PII for the period required to comply with applicable law, or, in the absence of any legally required monitoring services, for no less than twenty-four (24) months following the date of notification to such individuals; (e) perform or take any other actions required to comply with applicable law as a result of the occurrence; (f) pay for any costs associated with the occurrence, including but not limited to any costs incurred by the State in investigating and resolving the occurrence, including reasonable attorney's fees associated with such investigation and resolution; (g) without limiting Contractor's obligations of indemnification as further described in this Contract, indemnify, defend, and hold harmless the State for any and all claims, including reasonable attorneys' fees, costs, and incidental expenses, which may be suffered by, accrued against, charged to, or recoverable from the State in connection with the occurrence; (h) be responsible for recreating lost State Data in the manner and on the schedule set by the State without charge to the State; and (i) provide to the State a detailed plan within ten (10) calendar days of the occurrence describing the measures Contractor will undertake to prevent a future occurrence. Notification to affected individuals, as described above, must comply with applicable law, be written in plain language, not be tangentially used for any solicitation purposes, and contain, at a minimum: name and contact information of Contractor's representative; a description of the nature of the loss; a list of the types of data involved; the known or approximate date of the loss; how such loss may affect the affected individual; what steps Contractor has taken to protect the affected individual; what steps the affected individual can take to protect himself or herself; contact information for major credit card reporting agencies; and, information regarding the credit and identity monitoring services to be provided by Contractor. The State will have the option to review and approve any notification sent to affected individuals prior to its delivery. Notification to any other party, including but not limited to public media outlets, must be reviewed and approved by the State in writing prior to its dissemination. The parties agree that any damages relating to a breach of this Section 36 are to be considered direct damages and not consequential damages. This section survives termination or expiration of this Contract.
- f. <u>State's Governance, Risk and Compliance (GRC) platform.</u> Contractor is required to assist the State, at no additional cost, with development, completion and on-going maintenance of a system security plan (SSP) using the State's automated governance, risk and compliance (GRC) platform, which requires Contractor to submit evidence, upon request from the State, in order to validate Contractor's security controls within two weeks of the State's request. On an annual basis, or as otherwise required by the State such as for significant changes, re-assessment of the system's controls will be required to receive and maintain authority to operate (ATO). All identified risks from the SSP will be remediated through a Plan of Action and Milestones (POAM) process with remediation time frames based on the risk level of the identified risk. For all findings associated with the Contractor's solution, at no additional cost, Contractor will be required to create or assist with the creation of State approved POAMs and perform related remediation activities. The State will make any decisions on acceptable risk. Foilure to comply with this section will be deemed a material breach of the Contract.
- **37.** Non-Disclosure of Confidential Information. The parties acknowledge that each party may be exposed to or acquire communication or data of the other party that is confidential, privileged communication not intended to be disclosed to third parties. The provisions of this Section survive the termination of this Contract.
 - a. <u>Meaning of Confidential Information</u>. For the purposes of this Contract, the term "**Confidential Information**" means all information and documentation of a party that: (a) has been marked "confidential" or with words of similar meaning, at the time of disclosure by such party; (b) if disclosed orally or not marked "confidential" or with words of similar meaning, was subsequently summarized in writing by the disclosing party and marked "confidential" or with words of similar meaning; and, (c) should reasonably be recognized as confidential information of the disclosing party. The term "Confidential Information" does not include any information or documentation that was: (a) subject to disclosure under the Michigan Freedom of Information Act (FOIA); (b) already in the

possession of the receiving party without an obligation of confidentiality; (c) developed independently by the receiving party, as demonstrated by the receiving party, without violating the disclosing party's proprietary rights; (d) obtained from a source other than the disclosing party without an obligation of confidentiality; or, (e) publicly available when received, or thereafter became publicly available (other than through any unauthorized disclosure by, through, or on behalf of, the receiving party). For purposes of this Contract, in all cases and for all matters, State Data is deemed to be Confidential Information.

- b. <u>Obligation of Confidentiality</u>. The parties agree to hold all Confidential Information in strict confidence and not to copy, reproduce, sell, transfer, or otherwise dispose of, give or disclose such Confidential Information to third parties other than employees, agents, or subcontractors of a party who have a need to know in connection with this Contract or to use such Confidential Information for any purposes whatsoever other than the performance of this Contract. The parties agree to advise and require their respective employees, agents, and subcontractors of their obligations to keep all Confidential Information confidential. Disclosure to a subcontractor is permissible where: (a) use of a subcontractor is authorized under this Contract; (b) the disclosure is necessary or otherwise naturally occurs in connection with work that is within the subcontractor's responsibilities; and (c) Contractor obligates the subcontractor in a written contract to maintain the State's Confidential Information in confidence. At the State's request, any employee of Contractor or any subcontractor may be required to execute a separate agreement to be bound by the provisions of this Section.
- c. <u>Cooperation to Prevent Disclosure of Confidential Information</u>. Each party must use its best efforts to assist the other party in identifying and preventing any unauthorized use or disclosure of any Confidential Information. Without limiting the foregoing, each party must advise the other party immediately in the event either party learns or has reason to believe that any person who has had access to Confidential Information has violated or intends to violate the terms of this Contract and each party will cooperate with the other party in seeking injunctive or other equitable relief against any such person.
- d. <u>Remedies for Breach of Obligation of Confidentiality</u>. Each party acknowledges that breach of its obligation of confidentiality may give rise to irreparable injury to the other party, which damage may be inadequately compensable in the form of monetary damages. Accordingly, a party may seek and obtain injunctive relief against the breach or threatened breach of the foregoing undertakings, in addition to any other legal remedies which may be available, to include, in the case of the State, at the sole election of the State, the immediate termination, without liability to the State, of this Contract or any Statement of Work corresponding to the breach or threatened breach.
- e. <u>Surrender of Confidential Information upon Termination</u>. Upon termination of this Contract or a Statement of Work, in whole or in part, each party must, within 5 calendar days from the date of termination, return to the other party any and all Confidential Information received from the other party, or created or received by a party on behalf of the other party, which are in such party's possession, custody, or control; provided, however, that Contractor must return State Data to the State following the timeframe and procedure described further in this Contract. Should Contractor or the State determine that the return of any Confidential Information is not feasible, such party must destroy the Confidential Information and must certify the same in writing within 5 calendar days from the date of termination to the other party. However, the State's legal ability to destroy Contractor data may be restricted by its retention and disposal schedule, in which case Contractor's Confidential Information will be destroyed after the retention period expires.

38. Data Privacy and Information Security.

- a. <u>Undertaking by Contractor</u>. Without limiting Contractor's obligation of confidentiality as further described, Contractor is responsible for establishing and maintaining a data privacy and information security program, including physical, technical, administrative, and organizational safeguards, that is designed to: (a) ensure the security and confidentiality of the State Data; (b) protect against any anticipated threats or hazards to the security or integrity of the State Data; (c) protect against unauthorized disclosure, access to, or use of the State Data; (d) ensure the proper disposal of State Data; and (e) ensure that all employees, agents, and subcontractors of Contractor, if any, comply with all of the foregoing. In no case will the safeguards of Contractor's data privacy and information security program be less stringent than the safeguards used by the State, and Contractor must at all times comply with all applicable State IT policies and standards, which are available to Contractor upon request.
- b. <u>Audit by Contractor</u>. No less than annually, Contractor must conduct a comprehensive independent third-party audit of its data privacy and information security program and provide such audit findings to the State.
- c. <u>Right of Audit by the State</u>. Without limiting any other audit rights of the State, the State has the right to review Contractor's data privacy and information security program prior to the commencement of Contract Activities and from time to time during the term of this Contract. During the providing of the Contract Activities, on an ongoing basis from time to time and without notice, the State, at its own expense, is entitled to perform, or to have performed, an on-site audit of Contractor's data privacy and information security program. In lieu of an on-site audit, upon request by the State, Contractor agrees to complete, within 45 calendar days of receipt, an audit questionnaire provided by the State regarding Contractor's data privacy and information security program.
- d. <u>Audit Findings</u>. Contractor must implement any required safeguards as identified by the State or by any audit of Contractor's data privacy and information security program.

- e. <u>State's Right to Termination for Deficiencies</u>. The State reserves the right, at its sole election, to immediately terminate this Contract or a Statement of Work without limitation and without liability if the State determines that Contractor fails or has failed to meet its obligations under this Section.
- **39.** Records Maintenance, Inspection, Examination, and Audit. The State or its designee may audit Contractor to verify compliance with this Contract. Contractor must retain and provide to the State or its designee and the auditor general upon request, all financial and accounting records related to the Contract through the term of the Contract and for 4 years after the latter of termination, expiration, or final payment under this Contract or any extension ("Audit Period"). If an audit, litigation, or other action involving the records is initiated before the end of the Audit Period, Contractor must retain the records until all issues are resolved.

Within 10 calendar days of providing notice, the State and its authorized representatives or designees have the right to enter and inspect Contractor's premises or any other places where Contract Activities are being performed, and examine, copy, and audit all records related to this Contract. Contractor must cooperate and provide reasonable assistance. If any financial errors are revealed, the amount in error must be reflected as a credit or debit on subsequent invoices until the amount is paid or refunded. Any remaining balance at the end of the Contract must be paid or refunded within 45 calendar days.

This Section applies to Contractor, any parent, affiliate, or subsidiary organization of Contractor, and any subcontractor that performs Contract Activities in connection with this Contract.

- 40. Warranties and Representations. Contractor represents and warrants: (a) Contractor is the owner or licensee of any Contract Activities that it licenses, sells, or develops and Contractor has the rights necessary to convey title, ownership rights, or licensed use; (b) Contractor will perform the Contract Activities in a timely, professional, safe, and workmanlike manner consistent with standards in the trade, profession, or industry: (c) Contractor will meet or exceed the performance and operational standards, and specifications of the Contract: (d) Contractor will provide all Contract Activities in good quality, with no material defects; (d) Contractor will not interfere with the State's operations; (e) all Contract Activities are delivered free from any security interest, lien, or encumbrance and will continue in that respect; (f) the Contract Activities will not infringe the patent, trademark, copyright, trade secret, or other proprietary rights of any third-party; (g) Contractor must assign or otherwise transfer to the State or its designee any manufacturer's warranty for the Contract Activities; (h) the Contract Activities are merchantable and fit for the specific purposes identified in the Contract; (g) the Contract signatory has the authority to enter into this Contract; (h) all information furnished by Contractor in connection with the Contract fairly and accurately represents Contractor's business, properties, finances, and operations as of the dates covered by the information, and Contractor will inform the State of any material adverse changes; (i) all information furnished and representations made in connection with the award of this Contract is true, accurate, and complete, and contains no false statements or omits any fact that would make the information misleading; and that (i) Contractor is neither currently engaged in nor will engage in the boycott of a person based in or doing business with a strategic partner as described in 22 USC 8601 to 8606. A breach of this Section is considered a material breach of this Contract, which entitles the State to terminate this Contract under Section 28, Termination for Cause. If Contract Activities includes purchase, use, or access to software, Contractor must agree to additional Warranties and Representations found in Schedules B or D of this Contract, as applicable.
- 41. Conflicts and Ethics. Contractor will uphold high ethical standards and is prohibited from: (a) holding or acquiring an interest that would conflict with this Contract; (b) doing anything that creates an appearance of impropriety with respect to the award or performance of the Contract; (c) attempting to influence or appearing to influence any State employee by the direct or indirect offer of anything of value; or (d) paying or agreeing to pay any person, other than employees and consultants working for Contractor, any consideration contingent upon the award of the Contract. Contractor must immediately notify the State of any violation or potential violation of these standards. This Section applies to Contractor, any parent, affiliate, or subsidiary organization of Contractor, and any subcontractor that performs Contract Activities in connection with this Contract.
- 42. Compliance with Laws. Contractor must comply with all federal, state and local laws, rules and regulations.

43. Accessibility Requirements.

a. All Software provided by Contractor under this Contract, including associated content and documentation, must conform to WCAG 2.0 Level AA. Contractor must provide a description of conformance with WCAG 2.0 Level AA specifications by providing a

completed PAT for each product provided under the Contract. At a minimum, Contractor must comply with the WCAG 2.0 Level AA conformance claims it made to the State, including the level of conformance provided in any PAT. Throughout the Term of the Contract, Contractor must:

- i. maintain compliance with WCAG 2.0 Level AA and meet or exceed the level of conformance provided in its written materials, including the level of conformance provided in each PAT;
- ii. comply with plans and timelines approved by the State to achieve conformance in the event of any deficiencies;
- iii. ensure that no Maintenance Release, New Version, update or patch, when properly installed in accordance with this Contract, will have any adverse effect on the conformance of Contractor's Software to WCAG 2.0 Level AA;
- iv. promptly respond to and resolve any complaint the State receives regarding accessibility of Contractor's Software;
- v. upon the State's written request, provide evidence of compliance with this Section by delivering to the State Contractor's most current PAT for each product provided under the Contract; and
- vi. participate in the State of Michigan Digital Standards Review described below.
- b. <u>State of Michigan Digital Standards Review.</u> Contractor must assist the State, at no additional cost, with development, completion, and on-going maintenance of an accessibility plan, which requires Contractor, upon request from the State, to submit evidence to the State to validate Contractor's accessibility and compliance with WCAG 2.0 Level AA. Prior to the solution going-live and thereafter on an annual basis, or as otherwise required by the State, re-assessment of accessibility may be required. At no additional cost, Contractor must remediate all issues identified from any assessment of accessibility pursuant to plans and timelines that are approved in writing by the State.
- c. <u>Warranty</u>. Contractor warrants that all WCAG 2.0 Level AA conformance claims made by Contractor pursuant to this Contract, including all information provided in any PAT Contractor provides to the State, are true and correct. If the State determines such conformance claims provided by the Contractor represent a higher level of conformance than what is actually provided to the State, Contractor will, at its sole cost and expense, promptly remediate its Software to align with Contractor's stated WCAG 2.0 Level AA conformance claims in accordance with plans and timelines that are approved in writing by the State. If Contractor is unable to resolve such issues in a manner acceptable to the State, in addition to all other remedies available to the State, the State may terminate this Contract for cause under **Section 28**.
- d. Contractor must, without limiting Contractor's obligations of indemnification as further described in this Contract, indemnify, defend, and hold harmless the State for any and all claims, including reasonable attorneys' fees, costs, and incidental expenses, which may be suffered by, accrued against, charged to, or recoverable from the State arising out of its failure to comply with the foregoing accessibility standards
- e. Failure to comply with the requirements in this Section shall constitute a material breach of this Contract.
- 44. HIPAA Compliance. The State and Contractor must comply with all obligations under HIPAA and its accompanying regulations, including but not limited to entering into a business associate agreement, if reasonably necessary to keep the State and Contractor in compliance with HIPAA.
- **45.** Nondiscrimination. Under the Elliott-Larsen Civil Rights Act, 1976 PA 453, MCL 37.2101, *et seq.*, the Persons with Disabilities Civil Rights Act, 1976 PA 220, MCL 37.1101, *et seq.*, and <u>Executive Directive 2019-09</u>. Contractor and its subcontractors agree not to discriminate against an employee or applicant for employment with respect to hire, tenure, terms, conditions, or privileges of employment, or a matter directly or indirectly related to employment, because of race, color, religion, national origin, age, sex (as defined in Executive Directive 2019-09), height, weight, marital status, partisan considerations, any mental or physical disability, or genetic information that is unrelated to the person's ability to perform the duties of a particular job or position. Breach of this covenant is a material breach of this Contract.
- **46. Unfair Labor Practice.** Under MCL 423.324, the State may void any Contract with a Contractor or subcontractor who appears on the Unfair Labor Practice register compiled under MCL 423.322.
- **47. Governing Law.** This Contract is governed, construed, and enforced in accordance with Michigan law, excluding choice-of-law principles, and all claims relating to or arising out of this Contract are governed by Michigan law, excluding choice-of-law principles. Any dispute arising from this Contract must be resolved in Michigan Court of Claims. Contractor consents to venue in Ingham County, and waives any objections, such as lack of personal jurisdiction or *forum non conveniens*. Contractor must appoint agents in Michigan to receive service of process.

- **48. Non-Exclusivity.** Nothing contained in this Contract is intended nor will be construed as creating any requirements contract with Contractor. This Contract does not restrict the State or its agencies from acquiring similar, equal, or like Contract Activities from other sources.
- **49. Force Majeure.** Neither party will be in breach of this Contract because of any failure arising from any disaster or acts of god that are beyond their control and without their fault or negligence. Each party will use commercially reasonable efforts to resume performance. Contractor will not be relieved of a breach or delay caused by its subcontractors. If immediate performance is necessary to ensure public health and safety, the State may immediately contract with a third-party.
- **50. Dispute Resolution.** The parties will endeavor to resolve any Contract dispute in accordance with this provision. The dispute will be referred to the parties' respective Contract Administrators or Program Managers. Such referral must include a description of the issues and all supporting documentation. The parties must submit the dispute to a senior executive if unable to resolve the dispute within 15 business days. The parties will continue performing while a dispute is being resolved unless the dispute precludes performance. A dispute involving payment does not preclude performance.

Litigation to resolve the dispute will not be instituted until after the dispute has been elevated to the parties' senior executive and either concludes that resolution is unlikely or fails to respond within 15 business days. The parties are not prohibited from instituting formal proceedings: (a) to avoid the expiration of statute of limitations period; (b) to preserve a superior position with respect to creditors; or (c) where a party makes a determination that a temporary restraining order or other injunctive relief is the only adequate remedy. This Section does not limit the State's right to terminate the Contract.

- **51. Media Releases.** News releases (including promotional literature and commercial advertisements) pertaining to the Contract or project to which it relates must not be made without prior written State approval, and then only in accordance with the explicit written instructions of the State.
- 52. Website Incorporation. The State is not bound by any content on Contractor's website unless expressly incorporated directly into this Contract.
- **53. Schedules**. All Schedules and Exhibits that are referenced herein and attached hereto are hereby incorporated by reference. The following Schedules are attached hereto and incorporated herein:

Schedule A	Statement of Work
Schedule B	Pricing and Fees
Schedule C (as applicable)	Terms for Contractor Hosted Software and Services
Exhibit 1 to Schedule C (as applicable)	Support Services and Service Level Agreement for Hosted Services
Schedule D (as applicable)	Data Hosting and Security for Hosted Software and Services
Exhibit 1 to Schedule D (as applicable)	Contractor's Disaster Recovery Plan
Schedule E (as applicable)	Federal Provisions Addendum
Exhibit 1 to Schedule E (as applicable)	Byrd Anti-Lobbying Certification

54. Entire Agreement and Order of Precedence. This Contract, which includes Schedule A – Statement of Work, and schedules and exhibits which are hereby expressly incorporated, is the entire agreement of the parties related to the Contract Activities. This Contract supersedes and replaces all previous understandings and agreements between the parties for the Contract Activities. If there is a conflict between documents, the order of precedence is: (a) first, this Contract, excluding its schedules, exhibits, and Schedule A – Statement of

Work; (b) second, Schedule A – Statement of Work as of the Effective Date; and (c) third, schedules expressly incorporated into this Contract as of the Effective Date. NO TERMS ON CONTRACTOR'S INVOICES, ORDERING DOCUMENTS, WEBSITE, BROWSE-WRAP, SHRINK-WRAP, CLICK-WRAP, CLICK-THROUGH OR OTHER NON-NEGOTIATED TERMS AND CONDITIONS PROVIDED WITH ANY OF THE CONTRACT ACTIVITIES WILL CONSTITUTE A PART OR AMENDMENT OF THIS CONTRACT OR IS BINDING ON THE STATE OR ITS AUTHORIZED USERS FOR ANY PURPOSE. ALL SUCH OTHER TERMS AND CONDITIONS HAVE NO FORCE AND EFFECT AND ARE DEEMED REJECTED BY THE STATE, EVEN IF ACCESS TO OR USE OF THE CONTRACT ACTIVITIES REQUIRES AFFIRMATIVE ACCEPTANCE OF SUCH TERMS AND CONDITIONS.

- **55. Severability.** If any part of this Contract is held invalid or unenforceable, by any court of competent jurisdiction, that part will be deemed deleted from this Contract and the severed part will be replaced by agreed upon language that achieves the same or similar objectives. The remaining Contract will continue in full force and effect.
- 56. Waiver. Failure to enforce any provision of this Contract will not constitute a waiver.
- **57. Survival.** The provisions of this Contract that impose continuing obligations, including warranties and representations, termination, transition, insurance coverage, indemnification, and confidentiality, will survive the expiration or termination of this Contract.

Imagery Hosting Service

SCHEDULE A – STATEMENT OF WORK

1. DEFINITIONS

The following terms have the meanings set forth below. All initial capitalized terms that are not defined below shall have the respective meanings given to them in Section 1 of the Contract Terms and Conditions.

Term	Definition
DTMB	Department of Technology, Management and Budget
MiSAIL	Michigan Statewide Authoritative Imagery & Lidar
SOM	State of Michigan
State Partners	Entities including, but not limited to, Local, Federal, and Tribal Governments to which services and pricing established through this RFP may be extended
CONTIGOUS AOIs	Two or more AOIs (Areas of Interest) touching at any one point. AOIs can be of various GSDs (Ground Sample Distance)

2. BACKGROUND

Since 2004, the SOM has been working to acquire high resolution orthoimagery to assist in the geo-spatial data needs of State employees and to provide high quality images as a backdrop for the State's internet applications. During the last 16 years, a variety of State, local, and federal partnership initiatives have been put in place that have increased the availability of high resolution orthoimagery and increased the desire to continue to add to the available data. Access to high-quality, authoritative orthoimagery has created a demand for more data at better resolution, collected in a timely manner. To enable efficient access to the current imagery inventory, and accommodate future imagery products, the SOM needs a robust, secure, expandable imagery hosting service.

3. PURPOSE

It is the State's intent to establish this contract for imagery hosting services which is an optional service that the State may need in the future. It is unknown if the State of Michigan will have funding to issue a Statement of Work for imagery hosting services. Projects to be tasked under this contract are dependent on availability of funding.

4. CONTRACT TERM

The contract overall term is expected to be 3 years with 5, 1-year options.

5. SPECIFIC STANDARDS

IT Policies, Standards and Procedures (PSP)

Contractors agrees with the following PSP's.

Public IT Policies, Standards and Procedures (PSP): https://www.michigan.gov/dtmb/0,5552,7-358-82547 56579 56755---,00.html

Applicable non-publicly available PSP's are available after signing and returning to the State the required Nondisclosure Agreement (NDA) agreement.

Acceptable Use Policy

To the extent that Contractor has access to the State's computer system, Contractor must comply with the State's Acceptable Use Policy, see

https://www.michigan.gov/documents/dtmb/1340.00.01 Acceptable Use of Information Technology Standard 458958 7.pdf. All Contractor Personnel will be required, in writing, to agree to the State's Acceptable Use Policy before accessing the State's system. The State reserves the right to terminate Contractor's access to the State's system if a violation occurs.

Look and Feel Standard

All software items provided by the Contractor must adhere to the State of Michigan Application/Site Standards which can be found at <u>www.michigan.gov/standards</u>.

Mobile Responsiveness

The Contractor's Solution must utilize responsive design practices to ensure the application is accessible via a mobile device.

Accessibility Requirements

The State is required to comply with the Americans with Disabilities Act of 1990 (ADA) and has adopted standards and procedures regarding accessibility requirements for websites and software applications. All websites, applications, software, and associated content and documentation provided by the Contractor as part of the Solution must comply with Level AA of the World Wide Web Consortium (W3C) Web Content Accessibility Guidelines (WCAG) 2.0.

Contractor must provide a description of conformance with WCAG 2.0 Level AA specifications by providing a completed PAT for the Solution. If the Solution is comprised of multiple products, a PAT must be provided for each product. In addition to PATs, Contractors may include a verification of conformance certified by an industry-recognized third-party. If the Contractor is including any third-party products in the Solution, Contractor must obtain and provide the third-party PATs as well.

Each PAT must state exactly how the product meets the specifications. All "Not Applicable" (N/A) responses must be fully explained. Contractor must address each standard individually and with specificity; and clarify whether conformance is achieved throughout the entire product (for example - user functionality, administrator functionality, and reporting), or only in limited areas. A description of the evaluation methods used to support WCAG 2.0 Level AA conformance claims, including, if applicable, any third-party testing, must be provided. For each product that does not fully conform to WCAG 2.0 Level AA, Contractor must provide detailed information regarding the plans to achieve conformance, including timelines.

Type of User	Access Type	Number of Users	Number of Concurrent Users
State Employees	Read Only	500	500
Trusted Third Parties	Read Only	250	250
Public Citizens	Read Only	400	400

6. USER TYPE AND CAPACITY

Contractor can, at a minimum, meet the user type and capacity chart above.

7. ACCESS CONTROL AND AUTHENTICATION

The Contractor's solution must integrate with the State's IT Identity and Access Management (IAM) environment as described in the State of Michigan Digital Strategy (<u>http://www.michigan.gov/dtmb/0.5552,7-150-56345_56351_69611-336646--,00.html</u>), which consist of:

- 1. MILogin/Michigan Identity, Credential, and Access Management (MICAM)
 - a. An enterprise single sign-on and identity management solution based on IBM's Identity and Access Management products including, IBM Security Identity Manager (ISIM), IBM Security Access Manager for Web (ISAM), IBM Tivoli Federated Identity Manager (TFIM), IBM Security Access Manager for Mobile (ISAMM), and IBM DataPower, which enables the State to establish, manage, and authenticate user identities for the State's Information Technology (IT) systems.
- 2. MILogin Identity Federation
 - a. Allows federated single sign-on (SSO) for business partners, as well as citizen-based applications.
- 3. MILogin Multi Factor Authentication (MFA, based on system data classification requirements)

- a. Required for those applications where data classification is Confidential and Restricted as defined by the 1340.00 Michigan Information Technology Information Security standard (i.e. the proposed solution must comply with PHI, PCI, CJIS, IRS, and other standards).
- 4. MILogin Identity Proofing Services (based on system data classification requirements)
 - a. A system that verifies individual's identities before the State allows access to its IT system. This service is based on "life history" or transaction information aggregated from public and proprietary data sources. A leading credit bureau provides this service.

8. DATA RETENTION

All raw-captured data and final deliverables will have multiple backups, including one kept off-site in a secure location, and are held indefinitely for retrieval by the State. Through the duration of the project, processed data is updated to the most current backup. Upon delivery, the processed data is replaced with the finalized, delivered data for indefinite storage and upkeep.

9. SECURITY

The Solution will be storing public data.

Contractor's solution must meet the State's data security requirements:

- Must be encrypted in transit and at rest using AES 128 bit or higher encryption.
- Must remain compliant with FISMA and the NIST Special Publication 800.53 (most recent version) LOW controls using minimum control values as established in the applicable SOM PSP's.
- Must maintain an annual SSAE 18 SOC 2 Type 2 audit for the Solution based on SOM required NIST low controls.

10. END-USER OPERATING ENVIRONMENT

The software must accommodate the latest browser versions (including mobile browsers) as well as some pre-existing browsers. To ensure that users with older browsers are still able to access online services, applications must, at a minimum, display and function correctly in standards-compliant browsers and the state standard browser without the use of special plugins or extensions. The rules used to base the minimum browser requirements include:

- Over 2% of site traffic, measured using Sessions or Visitors (or)
- The current browser identified and approved as the State of Michigan standard

This information can be found at <u>https://www.michigan.gov/browserstats</u>. Please use the most recent calendar quarter to determine browser statistics. For those browsers with over 2% of site traffic, except Internet+- Explorer which requires support for at minimum version 11, the current browser version as well as the previous two major versions must be supported.

Contractor must support the current and future State standard environment at no additional cost to the State.

11. SOFTWARE

Contractor will be using technology developed by Sanborn - Geo-Data Explorer[™]

12. SOLUTION REQUIREMENTS

See attached Schedule A - Exhibit 1 Business Specification Worksheet for more detail to solution requirements.

13. INTEGRATION

Reserved

14. MIGRATION

There are no migration services needed at this time, however the State may need migration services in the future.

15. TESTING SERVICES AND ACCEPTANCE

See terms set forth in the Contract Terms and any applicable Schedules for more information on testing services and acceptance.

16. TRAINING SERVICES

The Contractor must provide administration and end-user training for implementation, go-live support, and transition to customer self-sufficiency. The Contractor must provide available training options and include details such as: typical class size, materials to be provided, class duration, on-site or web based. The Contractor must provide a training plan for go-live support and transition to self-support, including options and details such as the number of dedicated personnel, staff location, hours available and duration of go-live support.

Contractor must provide details on, and examples of, clearly written instructions and documentation to enable State administrators and end-users to successfully operate the Solution without needing to bring in additional Contractor support.

17. HOSTING

For any software that is not to be hosted by the State, Contractor must maintain and operate a backup and disaster recovery plan to achieve a Recovery Point Objective (RPO) of 2 hours, and a Recovery Time Objective (RTO) of 8 hours.

18. SUPPORT AND OPERATIONS

See the Maintenance and Support Schedule and SLA, identified as Exhibit 1 to Schedule C for more information related to support and operations.

Support Hours

The State requires the Contractor to provide Support Hours as 8 a.m. to 5 p.m. Eastern, Monday thru Friday.

19. DOCUMENTATION

At the State's request, Contractor will provide all user manuals, operating manuals, technical manuals and any other instructions, specifications, documents or materials, in any form or media, that describe the functionality, installation, testing, operation, use, maintenance, support, technical or other components, features or requirements of the Software.

The Contractor's user documentation must provide detailed information about all software features and functionality, enabling the State to resolve common questions and issues prior to initiating formal support requests.

20. TRANSITION SERVICES

Upon termination or expiration of the agreement, Contractor must, for a period of time specified by the State (not to exceed 90 calendar days), provide all reasonable transition assistance requested by the State, to allow for the expired or terminated portion of the agreement to continue without interruption or adverse effect, and to facilitate the orderly transfer of the services to the State or its designees. Such transition assistance may include but is not limited to: (a) continuing to perform the services at the established rates; (b) taking all reasonable and necessary measures to transition performance of the work, including all applicable services to the State or the State or the State or the State or such other action as the State may direct, to preserve, maintain, protect, or return (in a format specified by the State) to the State all data stored in the solution; and (d) preparing an accurate accounting from which the State and Contractor may reconcile all outstanding accounts.

21. PRODUCTS AND SERVICES

Any additional products or services are properly identified throughout the contract.

22. CONTRACTOR PERSONNEL

Contractor Contract Manager. the individual appointed by it to (a) administer the terms of this Contract, and (b) approve and execute any Change Notices under this Contract.

Contractor Name: John Copple Address: 1935 Jamboree Drive, Suite 100, Colorado Springs, CO 80920 Phone: 719-264-5600 Email: jcopple@sanborn.com

cc to:
Name: Amy Kappel
2
Address: 1935 Jamboree Drive, Suite
100
100
Colorado Springs, CO 80920
Phone: 719-264-5510
Phone: /19-204-5510
Email: akappel@sanborn.com

Contractor Project Manager. the Contractor Project Manager who will serve as the primary contact regarding services who will have the authority to act on behalf of the Contractor in matters pertaining to the implementation services.

Contractor Name: Shawn Benham, PMP Address: 1935 Jamboree Drive, Suite 100 Colorado Springs, CO 80920 Phone: 719-502-1296 Email: <u>sbenham@sanborn.com</u>

Contractor IT Manager. the name of individual to serve as IT Manager responsible for the creation of required deliverables for the imagery hosting service.

Contractor
Name: Mickey Michalko
Address: 1935 Jamboree Drive,
Suite 100 Colorado Springs, CO
80920
Phone: (719) 640-2526
Email : mmichalko@sanborn.com

Contractor Technical Support Manager. the name of individual to serve as Technical Support Manager responsible for the creation of required deliverables for the imagery hosting service.

Contractor
Name: Doug Zehr
Address: 1935 Jamboree Drive,
Suite 100 Colorado Springs, CO
80920
Phone: (719) 264_5483
Email: dzehr@sanborn.com

23. CONTRACTOR PERSONNEL REQUIREMENTS

The Contractor must present certifications evidencing satisfactory Michigan State Police Background checks ICHAT and drug tests for all staff identified for assignment to this project.

In addition, proposed Contractor personnel will be required to complete and submit an RI-8 Fingerprint Card for the National Crime Information Center (NCIC) Fingerprints, if required by project.

Contractor will pay for all costs associated with ensuring their staff meets all requirements.

24. STATE RESOURCES/RESPONSIBILITIES

The State will provide the following resources as part of the implementation and ongoing support of the Solution.

State Contract Administrator. The State Contract Administrator is the individual appointed by the State to (a) administer the terms of this Contract, and (b) approve and execute any Change Notices under this Contract.

State Project Manager. The State Project Manager will serve as the primary contact with regard to implementation Services who will have the authority to act on behalf of the State in approving Deliverables, and day to day activities.

Agency Business Owner. The Agency Business Owner will serve as the primary contact for the business area with regard to business advisement who will have the authority to act on behalf of the State in matters pertaining to the business Specifications.

State Technical Lead. The State Technical Lead will serve as the primary contact with regard to technical advisement.

25. MEETINGS

At start of the engagement, the Contractor Project Manager must facilitate a project kick-off meeting with the support from the State's Project Manager and the identified State resources to review the approach to accomplishing the project, schedule tasks and identify related timing, and identify any risks or issues related to the planned approach. From project kick-off until final acceptance and go-live, Contractor Project Manager must facilitate weekly meetings (or more if determined necessary by the parties) to provide updates on implementation progress. Following go-live, Contractor must facilitate monthly meetings (or more or less if determined necessary by the parties) to ensure ongoing support success.

26. PROJECT CONTROL & REPORTS

Once the project kick-off meeting has occurred, the Contractor Project Manager will monitor project implementation progress and report on a weekly basis to the State's Project Manager the following:

- Progress to complete milestones, comparing forecasted completion dates to planned and actual completion dates
- Accomplishments during the reporting period, what was worked on and what was completed during the current reporting period
- Indicate the number of hours expended during the past week, and the cumulative total to date for the project.
 Also, state whether the remaining hours are sufficient to complete the project.
- Tasks planned for the next reporting period
- Identify any existing issues which are impacting the project and the steps being taken to address those issues
- Identify any new risks and describe progress in mitigating high impact/high probability risks previously identified
- Indicate the amount of funds expended during the current reporting period, and the cumulative total to date for the project.

All Contractors must submit and enter weekly timesheets into the State of Michigan's Project Portfolio Management tool, Clarity PPM, for approval and reporting. The weekly Clarity PPM timesheet will contain hours worked for assigned project tasks.

27. MILESTONES AND DELIVERABLES

Reserved.

28. PRICING

See **Schedule B – Pricing and Fees** for a detailed description of all costs associated with implementing, maintaining and supporting the Solution.

If Contractor reduces its prices for any of the software or services during the term of this Contract, the State shall have the immediate benefit of such lower prices for new purchases. Contractor shall send notice to the State's Contract Administrator with the reduced prices within fifteen (15) Business Days of the reduction taking effect.

Travel and Expenses

The State does not pay for overtime or travel expenses.

29. ADDITONAL INFORMATION

The State reserves the right to purchase any additional services or products from the Contractor during the duration of the Contract.

STATE OF MICHIGAN

Imagery Hosting Service

1. Optional Imagery Hosting Service

1.1 Characteristics

Sanborn is experienced in providing hosting solutions by using proven application software and Google Cloud Services for data storage and access. Sanborn is a Google Cloud partner and has implemented solutions with Google for imagery access for a number of state users that are also using Google Imagery. Sanborn is now implementing a lidar solution where all the State of Michigan's data will be hosted on the Google Cloud with search and access applications provided by Sanborn.

In general, our hosted solution will have the following functionalities based on our experience:

- Cloud-based Infrastructure: Any subscriber expects the Imagery service to be consistent and reliable; having a scalable back-end infrastructure can assist in achieving this.
- Powerful Web-Viewer: Having a powerful web-based Imagery viewer can allow users to use the Imagery across platforms (including tablets) and even in the field, leading to interesting workflows.
- Measurement and Query Tools: Include measurement tools and search functions to allow end users to play with the data and identify AOIs of interest.
- Geospatial Data Layers: There are a lot of data layers available for free public use. The service should allow users to customize the viewer, including changing basemaps so that it serves their needs.
- Annotation Tools: Annotation tools can be useful for users to show specific features of the dataset that could be of concern or interest for others.
- Export Data: The users should be allowed to export screenshots or clipped datasets so that they can take their annotations outside the subscription service. This includes any options to directly share on social media, which can again generate good buzz about the service and promote more use.

- Usage monitoring: The State administrator will be able to set usage limits to control cost by user.
- Streaming capability to interface using WMS, WMTS, WFS to applications such as ArcMap and ArcPro.
- Google Cloud Hosting Benefits:
 - FedRAMP Compliance
 - Alignment and potential consolidation with existing lidar solution.
 - Proximity to state-of-the-art Analytics and AI/ML solutions that could provide additional future avenues of expansion such as image object detection and image analysis.

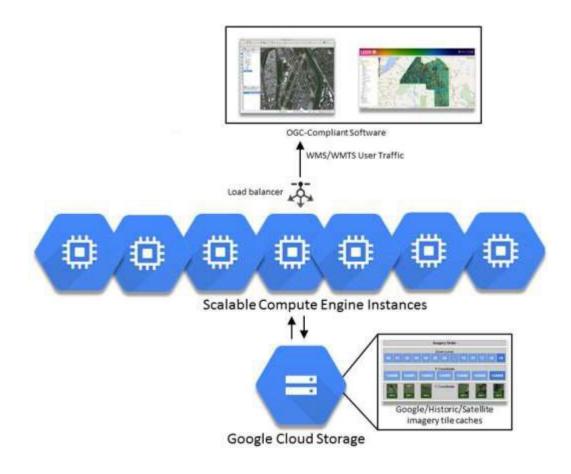
Through Sanborn Google is able to provide a special offering to Public Sector customers to allow for a fixed price over a term of 1 year without any overages for a specific, defined workload. In order to provide this type of fixed price and alleviate any risk of overages, we will have to do additional data discovery to determine some of the following aspects of your workload:

- Direct System Consumption Patterns
 - User Types (Internal/External)
 - Number of Users and Concurrent Users
 - Typical System Load (Describe seasonality, etc.)
 - Typical Actions of Users (target specific location, browse many locations (determine total traffic))
- Indirect System Consumption Patterns (for each integration)
 - Integration Type (Streaming, WMS, WMTS, etc.)
 - Number of Users and Concurrent Users
 - Typical System Load (Describe seasonality, etc.)
 - Does the application cache data?

Building business solutions on Google's cloud platform allows the State to eliminate concerns about future scalability and lack of infrastructure. The advantage of moving to a solution like the Google Cloud Platform is that as a geospatial expert the Sanborn/Google Team is able to offer the service of the most advanced and robust new cloud-based solutions. Customers benefit by engaging with Sanborn, because of our investment in developing the skills needed to build new application solutions on top of Google's Cloud Platform. These solutions are accessible by all forms of devices from workstations to mobile platforms. The benefits for this architecture include:

- Hosting on Google Cloud Platform allows consumers to get the advantage of Google's SLA that includes guaranteed 99.95% up time.
- Using Google Compute Engine to handle excess web-traffic only if necessary, leads to reduced costs for most day-to-day solutions.
- OAuth 2.0 Authentication –Integration with MILOGIN possible

For Data Discovery requirements Sanborn will license a software solution (Geo-Data Explorer[™]) for data discovery, review, retrieval, metadata search, etc. The advantage to the State is Sanborn's solution is also being fielded for the current State lidar program. The two solutions have similar GUI and appearance. Features can be filtered down based on geographic boundaries or attribute filters. Users can set the geographic boundaries by entering criteria into the search text box, such as city, county, or other name, latitude/longitude coordinates, or bounding box coordinates. They can also apply the bounding box of the current map view by selecting it on the map.



Sanborn is proposing a Cloud Hosting Solution and Application that will only be accessible by the State and authorized State users. If awarded, Sanborn and Google propose a requirements meeting and analysis to enable a specific architecture to be developed for submission to and approval by the State. This will include definition of data access via mutually agreed upon standard services (WMTS, WMS, WFS, WCS, etc.).

1.3 SOM Administrative Access

Sanborn's proposed solution (Sanborn Geo-Data Explorer[™]) allows end-users to access data through browser-based authentication. Sanborn uses multi-factor authentication (MFA) to add an additional factor to conventional logins to prevent unauthorized access. MFA is used for both authentication (the action of verifying a user's identity) and authorization (the action of verifying a user has permission to do something). The additional factor to conventional logins can be done through sending a one-time password by SMS, or email, or through apps like Google Authenticator and Duo.

Sanborn Geo-Data Explorer[™] has a sophisticated backend dashboard that allows administrators to create/remove users, grant users privileges (such as admin rights), reset passwords, and monitor user history. Admins can login as users (without knowing their login credentials) to troubleshoot any problems they might be seeing. Admins can also add subscription leases to user accounts for cases where Purchase Orders are to be applied instead of credit card transactions,

or where the users are to be credited extra trial periods on a subscription. An example of the Sanborn Geo-Data Explorer[™] user management dashboard is given below.

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1.4 Proposed Solution

A. Data storage up to 50 TB to be provided Software / Licensing to be provided.

The State geospatial imagery need must be scalable, technologically superior, secure, and cost effective. Sanborn is a Service Partner within the Google Cloud Platform (GCP) Partner Program. GCP is a set of modular cloud-based services that allow you to create anything from simple websites to complex applications. With the Google team of Google Qualified Cloud Platform developers Sanborn's capabilities cover the entire lifecycle of geospatial IT implementation; starting with strategic planning, and including data development, system architecture, custom applications, technical support and hosting services. Sanborn and Google represent an incredibly strong team to support Google Cloud services and solutions to help the State build and run geospatial applications to store/access data by leveraging one of the largest IT infrastructures in the world. The Sanborn Team is proposing an innovative, cloud-based approach that includes managed services for the State's infrastructure. The benefits to State include:

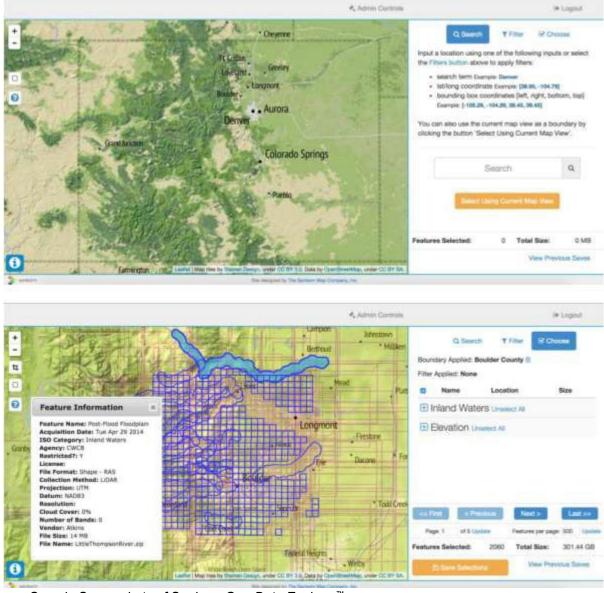
- Secure, cloud-based infrastructure that involves no State obligation to purchase or maintain physical hardware, power consumption or a need for air conditioning
- Minimal data storage costs
- Access to the imagery through consumable, Open Geospatial Consortium (OGC) compliant web services
- Tools to enable image download from the cloud
- Hands-off management of imagery hosting through managed services that provide high levels of uptime
- Cloud-based redundancy to any on premise uses of the new imagery that the State implements
- Google's Cloud Platform utilizes a technology called Compute Engine, which are high performance virtual machines (VM). Compute Engine's Linux VMs are consistently performing, scalable, highly secure and reliable. These systems create large computerclusters

that benefit from strong and consistent cross-machine bandwidth. Global load-balancing technology helps distribute incoming requests across pools of instances across multiple regions, to achieve maximum performance, throughput and availability. All data written to disk in Compute Engine is encrypted on the fly and then transmitted and stored in encrypted form.

- Google Compute Engine has completed ISO 27001, SSAE-16, SOC 1, SOC 2, and SOC 3 certifications, demonstrating our commitment to information security.
- Google Cloud Service is FedRamp compliant.

B. Create functionality to discover, analyze and download data

Sanborn proposes licensing a web-based GIS server solution to make it convenient for the state agencies and the public to discover and access imagery data sets similar to the Lidar discovery tool. The figures below show screenshots of the data discovery and access application.



Sample Screenshots of Sanborn Geo-Data Explorer™

As shows in the figures above, tiles or similar gridding for the imagery coverage will be displayed as and will contain metadata as attributes. The users will be able to select tiles to view, retrieve or stream. Once a selection is made, users will be presented with a list of attributes for all polygons selected. Sanborn will work with the State to understand if any data access restrictions or hyperlinking for direct data download will be relevant, e.g., there can be restrictions on the download of multiple tiles or images at one time, based on overall size of download to user or the number of tiles that can be downloaded at one time.

The application also has a number of State features for administration

C. Create functionality to upload data

There are multiple options for bulk data uploads:

- 1. rsync: Customers can use this open source tool along with 3rd party file system tools, such as gsutil command-line tool, to copy data directly into cloud buckets through a multithreaded transfer. When uploading large files, gsutil offers parallel composite uploads. This feature splits each file into several smaller components, and uploads the components in parallel. The objects are automatically composed into one object in Google Cloud Storage.
- 2. Offline Transfer Appliance: Transfer Appliance (shown in Figure 3) is a secure, rackable high capacity storage server provided by Google and shipped in a tamper-evident case through common carriers. Users can rack the appliance in their datacenter, connect to a network and fill with up to a PB of data. It is then shipped to an ingest location where the data is uploaded to Google Cloud Storage. The data is encrypted automatically, and remains safe until users decrypt it.
- 3. Storage Transfer Service: Storage Transfer Service transfers data from an online data source to a data sink. The data sink (the destination) is always a Cloud Storage bucket (Google Cloud Storage in this case).

The data can be uploaded by administrators by following the Step-by-step Guide that Sanborn will provide after the implementation of the Sanborn Geo-Data Explorer[™] system. Sanborn's solution is cloud-hosted and will allow the State to have direct access to upload data on an asneeded basis.

The data will initially be added to a staging server that will be a mirror of the production environment. The staging server will provide a temporary hosting and testing environment for any new software version or data, and be used for final stress testing before going live. Once the data passes the tests on the staging website, it will be considered production ready and migrated to the production server to go live. The Production server will always host the currently released version of the website, accessible to the public and users.

D. Secure user access using SOM MILogin

Sanborn proposes to link State-secure MILOGIN access to the Google Cloud application and the data discovery application (Sanborn Geo-Data Explorer[™]) for security access. Sanborn is in the process of accomplishing that currently under a separate project for another application related to lidar discovery and visualization.

E. Access via SOM desktop software

The proposed solution is able to stream via a WMS to ArcMap, ArcPro, and other standard mapping software. Sanborn does not provide this type of desktop software.

Schedules C&D

The RFP does not provide enough specific information as to the applications and related Cloud Hosting requirements. Upon selection, Sanborn will perform a requirements analysis along with Google Cloud personnel and then provide answers to the applicable Schedules C and D.

STATE OF MICHIGAN

Imagery Hosting Service

SCHEDULE A, EXHIBIT 1 - BUSINESS SPECIFICATION WORKSHEET

Α	В	D
Business Specification Number	Business Specification	Contractor's explanation on how they will deliver the business Specification. Explain the details of any configuration/customization and the impacted risk that may be caused if configured or customized to meet the business specification.
	Contractor must provide a hosting and service solution capable of supporting multiple terabytes of State of Michigan imagery	 Sanborn proposes Google Cloud Platform (GCP) services and solutions to help the State build and run geospatial applications to store/access data by leveraging one of the largest IT infrastructures in the world. The Sanborn Team is proposing an innovative, cloud-based approach that includes managed services for the State's infrastructure. The benefits to State include: Secure, cloud-based infrastructure that involves no State obligation to purchase or maintain physical hardware, power consumption or a need for air conditioning Minimal data storage costs Access to the imagery through consumable, Open Geospatial Consortium (OGC) compliant web services Tools to enable image download from the cloud Hands-off management of imagery hosting through managed services that provide high levels of uptime Cloud-based redundancy to any on premise uses of the new imagery that the State implements GCP utilizes a technology called Compute Engine, which are high performance virtual machines (VM). Compute Engine's Linux VMs are consistently performing, scalable, highly secure and reliable. These systems create large computer clusters that benefit from strong and consistent cross-machine bandwidth. Global load-balancing technology helps distribute incoming requests across pools of instances across multiple regions, to achieve maximum performance, throughput and availability.

2.0	Hosting solution must provide capabilities to discover, review and download imagery	 All data written to disk in Compute Engine is encrypted on the fly and then transmitted and stored in encrypted form. Google Compute Engine has completed ISO 27001, SSAE-16, SOC 1, SOC 2, and SOC 3 certifications, demonstrating their commitment to information security. Google Cloud Service is FedRamp compliant. Sanborn proposes a web-based GIS server solution to make it convenient for the state agencies and the public to discover and access imagery data sets similar to the lidar discovery tool already being deployed by Sanborn for the State of Michigan. Tiles or similar gridding for the imagery coverage will be displayed and will contain metadata as attributes. The users will be able to select tiles to view, retrieve or stream. Once a selection is made, users will be presented with a list of attributes for all polygons selected. Sanborn will work with the State to understand if any data access restrictions or hyperlinking for direct data download will be relevant, e.g., there can be restrictions on the download of multiple tiles or images at one time, based on overall size of download to user or the number of tiles that can be downloaded at one time.
3.0	Hosting solution must comply with State of Michigan Information Technology standards, policies, and procedures	Sanborn's solution will comply with State of Michigan information technology standards, policies and procedures.
4.0	Hosting solution must provide secure access for State of Michigan staff at both administrator and user roles	Sanborn proposes to link State-secure MILOGIN access to the Google Cloud application and the data discovery application (Geo-Data Explorer [™]) for security access. Sanborn is in the process of accomplishing that currently under a separate project for another application related to lidar discovery and visualization.

Sanborn Software End-User License Agreement

THE STATE'S EXECUTION OF THE STANDARD CONTRACT INCORPORATING THIS **SANBORN SOFTWARE LICENSE AGREEMENT** INDICATES THAT THE STATE HAS READ THIS LICENSE AGREEMENT AND ACCEPTS THESE TERMS AND CONDITIONS.

THIS IS NOT FREE DATA, FREE PRODUCT OR FREE WARE. UNLICENSED USE OF THE SANBORN PRODUCTS IS A VIOLATION OF LAW, INCLUDING WITHOUT LIMITATION, THE U.S. AND INTERNATIONAL COPYRIGHT LAWS.

THE STATE IS GRANTED A LICENSE TO USE THE SANBORN PRODUCTS AS SET FORTH BELOW.

The Sanborn Map Company, Inc. ("Sanborn") grants a non-exclusive, non-transferable license (the "License") to the State to install, download, use, copy or transmit the Sanborn Software, including any services, documentation, data and information the State receives in connection therewith (the "Products"), on the express condition that the State agrees to the terms and conditions of the license as set forth herein (the "License Agreement"):

1. License Granted

(a) The License to install, download, use, copy or transmit the Products granted by this License Agreement provides for the following use depending upon the fee the State pays to Sanborn, and as indicated by the box checked below:

Enterprise License: Permits access to, or delivery or transmission of the Products to or from the State's computer system ("Computer") for an unlimited number of users within a designated geographic area or market segment as expressly defined and set forth in the State's corresponding purchase order or contract. Enterprise licenses to agencies of the United States Government are unrestricted. Such license may be accompanied, as appropriate, by a Reseller or Value-Added Reseller ("VAR") agreement, and will outline any exceptions to the permitted or prohibited uses if the Reseller or VAR agreement is exercised.

(b) This License Agreement is subject to Sanborn's agreements with its data suppliers, as may be imposed or modified from time to time. Any data available to the State under this License Agreement that is provided to Sanborn by third party data suppliers is expressly conditioned on Sanborn's agreements with such data suppliers. Sanborn shall cease delivery of such data to the State upon termination of the license granted by such data suppliers to Sanborn to distribute such data.

2. No Warranties

DISCLAIMER. SANBORN MAKES NO WARRANTIES AS TO THE PRODUCTS, WHETHER EXPRESS OR IMPLIED, WRITTEN OR ORAL, INCLUDING WITHOUT LIMITATION ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR USE OR PURPOSE. IN NO EVENT SHALL SANBORN BE LIABLE TO THE STATE OR ANY OTHER PERSON OR ENTITY FOR SPECIAL, INCIDENTAL, PUNITIVE, EXEMPLARY OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, LOSS OF PROFITS, LOSS OF DATA OR LOSS OF USE DAMAGES) ARISING OUT OF OR IN CONNECTION WITH THIS LICENSE AGREEMENT OR THE MANUFACTURE, SALE OR SUPPLY OF THE PRODUCTS WHETHER OR NOT SANBORN HAS BEEN ADVISED OF OR OTHERWISE MIGHT HAVE ANTICIPATED THE POSSIBILITY OF SUCH DAMAGES.

3. Limitation on Liability

(a) The Products provided hereunder are obtained or derived by Sanborn from sources, in a manner that Sanborn, using commercially reasonable resources, has reason to believe are reliable. Sanborn and its suppliers shall have no liability to the State, or a third party, for errors, omissions or malfunctions in the Products, other than the obligation of Sanborn to use commercially reasonable efforts, upon receipt of notice from the State, to correct a malfunction, error, or omission in any Products. Sanborn, at its option and expense, may either (a) replace the Products, or (b) refund the purchase price the State paid upon receipt of the Products. Infringement claims made against the Products, to include without limitation copyright, patent, trademark, or trade secret infringement claims, the remedies applicable to which are set forth in Section 33 of the Standard Contract Terms will not be subject to the limitations of liability described in this Section 3(a).

4. Proprietary Information

The State acknowledges that the data and information contained in the Products constitute copyrighted, trade secret or proprietary information of substantial value to Sanborn or its suppliers (collectively "Proprietary Information"). The State shall treat Proprietary Information as proprietary and shall not divulge, nor permit any of the State's employees or agents to divulge, any Proprietary Information to any person or entity, except as expressly permitted under this License Agreement, or as otherwise provided by law.

5. Copyright

(a) The State understands and acknowledges that the Products are a copyright of Sanborn and the State agrees that it will insure that all copies of the Products will contain appropriate copyright notices and that all notices, reproductions or advertisements of any kind will also credit Sanborn as the source of the data.

(b) All Products and advertising must, minimally, be accompanied by the following copyright and credit statements: © The Sanborn Map Company, Inc. (insert year). All Rights Reserved.

6. Limitations on Use of Products

(a) The State agrees to obtain access to or receive deliveries of the Products solely from Sanborn and/or its authorized distributors or resellers.

(b) The State agrees to use the Products solely for the State's internal governmental use and benefit as expressly set forth in Section 1(a) of this License Agreement, and not for resale or other transfer or disposition to, or use by or for the benefit of, any other person or entity, except as follows: Use of the Products is limited to use by the State, temporarily on another computer system while the State's Computer is inoperative, or on a replacement computer system, upon advance written consent by Sanborn. The information and data contained in the Products, or any portion thereof (also, the "Products"), may not be transferred to or used on any other computer system except as provided for in this Section 6(b).

(c) The State may disseminate reports and analyses that contain "insubstantial" portions of the Products by either hard copy or view only access; provided that such dissemination is for human cognition only and not for manipulation in machine readable form ("Hard Copy Redistribution"). "Insubstantial" means those portions of Products which in the aggregate do not form a significant part of the Products from which they were derived, combined or revised. The State may make an unlimited number of print and internet display copies of the Products for use by any other person or entity as expressly permitted under this License Agreement, provided that: (1) all copies include the copyright notice prominently displayed in or adjacent to the Products; (2) the State may not sell any copies made for such purposes; (3) with the exception provided by (4) below, the State will prohibit and prevent this data from being downloaded or screen captured by such other persons or entities; and (4) the State may display Products on the Internet in JPEG format that is non-georeferenced and degraded from its original form. Other than Hard Copy Redistribution, no other redistribution of the Products is permitted unless expressly set forth in this License Agreement.

(d) The State shall not use the Products for any unlawful purpose.

(e) The State is specifically prohibited from charging, or requesting donations, for the Products or any copies of the Products, however made, and from charging, or requesting donations, for the Products or any copies of the Products, however made, which are combined or bundled with other data or products of any kind, commercial or otherwise.

(f) The State is specifically prohibited from the reverse engineering of any kind of, or the creation of derived applications or data of any kind from, the Products and/or the information and data contained in the Products, or any portion thereof (also, the "Products").

(g) The State is specifically prohibited from transmitting, sharing, or distributing the Products or posting the Products via the world wide web to any person or entity except as expressly permitted under this License Agreement.

7. Intellectual Property

Sanborn retains and will hold all ownership rights in all intellectual property embodied in the Products including without limitation all trademarks, trade names, copyrights, service marks, source code, object code, documentation or data

contained in the Products, the Products themselves or any modifications of any kind thereto. Sanborn's ownership in the Products, as set forth herein, shall also apply to any derivative works of any kind thereto which are created in violation of this License Agreement. Nothing contained herein shall be deemed a transfer by Sanborn of any rights therein, nor a right to customize, manage or otherwise manipulate the Products.

8. Termination

Upon failure of a party to comply with any material provision of this License Agreement, the other party may terminate this License Agreement on thirty (30) days written notice thereof if such material breach is not cured within such thirty day period. Upon the termination or expiration of this License Agreement, the State will immediately return or destroy all the Products.

9. Reserved

10. General

(a) This License Agreement shall be governed by, and construed in accordance with, the laws of the State of Michigan without giving effect to any choice of law or conflict of law provision that would cause the application of the laws of any other jurisdiction other than the State of Michigan. Each of the parties agrees that any dispute relating to or arising from this License Agreement or the transactions contemplated hereby shall be resolved only in the state or federal courts located in Michigan and the appellate courts having jurisdiction of appeals from such courts. Each of the parties Agreement or the transactions for itself and its property in any legal action relating to this License Agreement or the transactions contemplated hereby, and enforcement of any judgment in respect thereof, to the exclusive jurisdiction of the state and federal courts in Michigan and appellate courts having jurisdiction of appeals from any of the foregoing, and each of the parties hereto irrevocably and unconditionally agrees that all claims in respect of any such legal action shall be heard and determined in such courts; and (ii) consents that any such legal action may and shall be brought in such courts and waives any objection that it may now or hereafter have to the venue or jurisdiction of any such legal action in any such court or that such legal action was brought in an inconvenient court and agrees not to plead or claim the same.

(b) The State may only assign this License Agreement, or its rights or obligations contained herein, if required by law or Executive Order, to another State of Michigan agency or Department. If such an assignment occurs, the State will notify Sanborn of that assignment within thirty (30) days of its effective date. (c) The parties expressly exclude from this License Agreement the applications of the United Nations Convention on Contracts for the International Sale of Goods, and further exclude from this License Agreement the applications of the International Sale of Goods Contracts Convention Act, S.C. 1990-1991, c. 13, and the International Sale of Goods Act, R.S.O. 1990, C.I.10, as amended.

STATE OF MICHIGAN

Schedule B – Pricing and Fees

OPTIONAL IMAGERY HOSTING SERVICE						
Per Section 1.4 - Proposed Solution, in Attachment 5 - Contractor to provide service costs						
PRODUCT	COST					
Data storage up to 50 TB	\$	170,000.00				
Software / Licensing	\$	50,000.00				
Create functionality to discover, analyze and downoad data	Inc					
Create functionality to upload data	Inc					
Secure user access using SOM MiLogin	Inc					
Access via SOM desktop products (ArcMap, ArcPro, and other standard mapping programs)	N/A					



STATE OF MICHIGAN

SCHEDULE C - CONTRACTOR HOSTED SOFTWARE AND SERVICES

1. Definitions. In addition to the definitions found in the Contract Terms, for the purposes of this Contract, the following terms have the following meanings:

"Authorized Users" means all Persons authorized by the State to access and use the Software under this Contract, subject to the maximum number of users specified in the applicable Statement of Work.

"Harmful Code" means any: (a) virus, trojan horse, worm, backdoor or other software or hardware devices the effect of which is to permit unauthorized access to, or to disable, erase, or otherwise harm, any computer, systems or software; or (b) time bomb, drop dead device, or other software or hardware device designed to disable a computer program automatically with the passage of time or under the positive control of any Person, or otherwise prevent, restrict or impede the State's or any Authorized User's use of such software.

"Hosted Services" means the hosting, management and operation of the Software and other services for remote electronic access and use by the State and its Authorized Users as described in one or more written, sequentially numbered, statements of work referencing this Contract, including all Specifications set forth in such statements of work, which, upon their execution will be attached as **Schedule A** to this Contract and by this reference are incorporated in and made a part of this Contract.

"Integration Testing" has the meaning set forth in Section 4.2(c).

"Open-Source Components" means any software component that is subject to any open-source copyright license agreement, including any GNU General Public License or GNU Library or Lesser Public License, or other obligation, restriction or license agreement that substantially conforms to the Open Source Definition as prescribed by the Open Source Initiative or otherwise may require disclosure or licensing to any third-party of any source code with which such software component is used or compiled.

"Open-Source License" has the meaning set forth in Section 2.3.

"Operating Environment" means, collectively, the platform, environment and conditions on, in or under which the Software is intended to be installed and operate, as set forth in the Statement of Work, including such structural, functional and other features, conditions and components as hardware, operating software and system architecture and configuration.

"Service Error" means any failure of any Hosted Service to be Available or otherwise perform in accordance with this Schedule.

"**Specifications**" means the specifications for the Software set forth in the applicable Statement of Work and, to the extent consistent with and not limiting of the foregoing, the Documentation.

"State Materials" means all materials and information, including documents, data, know-how, ideas, methodologies, specifications, software, content and technology, in any form or media, directly or indirectly provided or made available to Contractor by or on behalf of the State in connection with this Contract.

"Support Services" means the Software maintenance and support services Contractor is required to or otherwise does provide to the State pursuant to this Schedule C and Exhibit 1 to this Schedule C.

"**Technical Specification**" means, with respect to any Software, the document setting forth the technical specifications for such Software and included in the Statement of Work.

"User Data" means all data, information and other content of any type and in any format, medium or form, whether audio, visual, digital, screen, GUI or other, that is input, uploaded to, placed into or collected, stored, processed, generated or output by any device, system or network by or on behalf of the State, including any and all works, inventions, metadata, analyses and other information and materials resulting from any use of the Software by or on behalf of the State under this Contract, except that User Data does not include the Software or data, information or content, including any GUI, audio, visual or digital or other display or output, that is generated automatically upon executing the Software without additional user input.

"Warranty Period" means, for Contractor Hosted Software, the ninety (90) calendar-day period commencing on the date of the State's Acceptance of the Software.

2. Hosted Software License Grant and Source Code Escrow

2.1 <u>Contractor License Grant</u>. Contractor hereby grants to the State, exercisable by and through its Authorized Users, a nonexclusive, royalty-free, irrevocable (except as provided herein) right and license during the Term and such additional periods, if any, as Contractor is required to perform Services under this Contract or any Statement of Work, to:

(a) access and use the Hosted Services, including in operation with other software, hardware, systems, networks and services, for the State's business purposes, including for Processing State Data;

(b) generate, print, copy, upload, download, store and otherwise Process all GUI, audio, visual, digital and other output, displays and other content as may result from any access to or use of the Hosted Services;

(c) prepare, reproduce, print, download and use a reasonable number of copies of the Specifications and Documentation for any use of the Hosted Services under this Contract; and

(d) access and use the Hosted Services for all such non-production uses and applications as may be necessary or useful for the effective use of the Hosted Services hereunder, including for purposes of analysis, development, configuration, integration, testing, training, maintenance, support and repair, which access and use will be without charge and not included for any purpose in any calculation of the State's or its Authorized Users' use of the Hosted Services, including for purposes of assessing any Fees or other consideration payable to Contractor or determining any excess use of the Hosted Services as described in **Section 2.2**.

2.2 <u>License Restrictions</u>. The State will not: (a) rent, lease, lend, sell, sublicense, assign, distribute, publish, transfer or otherwise make the Hosted Services available to any third-party, except as expressly permitted by this Contract or in any Statement of Work; or (b) use or authorize the use of the Hosted Services or Documentation in any manner or for any purpose that is unlawful under applicable Law.

2.3 <u>Use</u>. The State will pay Contractor the corresponding Fees set forth in the Statement of Work for all Authorized Users access and use of the Hosted Services or Software. Such Fees will be Contractor's sole and exclusive remedy for use of the Hosted Services or Software, including any excess use.

2.4 <u>Open-Source Licenses</u>. For Contractor Hosted Software only (and not for the provision of Sof0tware-as-a-Service), any use hereunder of Open-Source Components shall be governed by, and subject to, the terms and conditions of the applicable open-source license ("Open-Source License"). Contractor shall identify and describe in an exhibit to the Statement of Work each of the Approved Open-Source Components of the Software, and include an exhibit attaching all applicable Open-Source Software Licenses or identifying the URL where these licenses are publicly available.

2.5 <u>Source Code Escrow</u>. The parties may enter into a separate intellectual property escrow agreement. Such escrow agreement will govern all aspects of Source Code escrow and release. Contractor hereby grants the State a license to use, reproduce, and create derivative works from the deposit material, provided the State may not distribute or sublicense the deposit material or make any use of it whatsoever except for such internal use as is necessary to maintain and support the Software. Copies of the deposit material created or transferred pursuant to this Contract are licensed, not sold, and the State receives no title to or ownership of any copy or of the deposit material itself. The deposit material constitutes Confidential Information of Contractor pursuant to **Section 37.a** of this Contract (provided no provision of **Section 37.e** calling for return of Confidential Information before termination of this Contract will apply to the deposit material).

3. Hosted Services Testing and Acceptance.

3.1 <u>Hosted Service Preparation</u>. Promptly upon the parties' execution of a Statement of Work, Contractor will take all steps necessary to make the Hosted Services procured thereunder ready and available for the State's use in accordance with the Statement of Work and this Contract, including any applicable milestone date or dates set forth in such Statement of Work.

3.2 Testing and Acceptance.

(a) When Contractor notifies the State in writing that the Hosted Services are ready for use in a production environment, the State will have thirty (30) days (or such other period as may be agreed upon by the Parties in writing) from receipt of the notice to test the Hosted Services to determine whether they comply in all material respects with the requirements of this Contract and the Specifications.

(b) Upon completion of the State's testing, the State will notify Contractor of its acceptance ("Accept" or "Acceptance") or, if it has identified any noncompliance with the Specifications, rejection ("Reject" or "Rejection") of the Hosted Services. If the State Rejects the Hosted Services, the State will provide a written list of items that must be corrected. On receipt of the State's notice, Contractor will promptly commence, at no additional cost or charge to the State, all reasonable efforts to complete, as quickly as possible and in any event within twenty (20) days (or such other period as may be agreed upon by the Parties in writing) from receipt of the State's notice, such necessary corrections, repairs and modifications to the Hosted Services to bring them into full compliance with the Specifications.

(c) If any corrective measures are required under **Section 3.2(b)**, upon completion of all such measures, Contractor will notify the State in writing and the process set forth in **Section 3.2(a)** and **Section 3.2(b)** will be repeated; provided that if the State determines that the Hosted Services, as revised, still do not comply in all material respects with the Specifications, the State may, in its sole discretion:

- (i) require the Contractor to repeat the correction, repair and modification process set forth in
 Section 3.2(b) at no additional cost or charge to the State; or
- (ii) terminate any and all of the relevant Statement of Work, this Contract and any other Statements of Work hereunder.

(d) The parties will repeat the foregoing procedure until the State Accepts the Hosted Services or elects to terminate the relevant Statement of Work as provided in **Section 3.2(c)(ii)** above. If the State so terminates the relevant Statement of Work, Contractor must refund to the State all sums previously paid to Contractor under such Statement of Work within ten (10) Business Days of the State's written notice of termination, and the State will be relieved of all obligations thereunder.

4. Support Services.

4.1 **Maintenance and Support Services**. Contractor will provide Hosted Service maintenance and support services (collectively, "**Support Services**") in accordance with the provisions set forth in this **Schedule C** and in the Service Level Agreement, attached as **Exhibit 1** to this **Schedule C** (the "**Support Services and Service Level Agreement**").

4.2 Maintenance Services. Contractor will provide Hosted Service maintenance and support services (collectively, "Software Support Services") in accordance with the provisions of this Schedule C, including Exhibit 1 to this Schedule C. The Software Support Services are included in the Services, and Contractor may not assess any additional fees, costs or charges for such Software Support Services. Contractor will continuously maintain the Hosted Services to optimize Availability that meets or exceeds the Availability Requirement as defined in Exhibit 1 to this Schedule C. Such maintenance services include providing to the State and its Authorized Users:

(a) all updates, bug fixes, enhancements, new releases, new versions and other improvements to the Hosted Services, including the Software, that Contractor provides at no additional charge to its other similarly situated customers; and

(b) all such services and repairs as are required to maintain the Hosted Services or are ancillary, necessary or otherwise related to the State's or its Authorized Users' access to or use of the Hosted Services, so that the Hosted Services operate properly in accordance with the Contract and this **Schedule C**.

4.3 Support Service Responsibilities. Contractor will:

(a) correct all Service Errors in accordance with the Support Service Level Requirements as defined in
 Exhibit 1 to this Schedule C, including by providing defect repair, programming corrections and remedial programming;

(b) provide unlimited telephone support between the hours of 7 am and 7 pm, EST;

(c) provide unlimited online support 24 hours a day, seven days a week;

(d) provide online access to technical support bulletins and other user support information and forums, to the full extent Contractor makes such resources available to its other customers; and

(e) respond to and Resolve Support Requests as specified in Exhibit 1 to this Schedule C.

5. Software and Service Warranties.

5.1 Contractor represents and warrants to the State that:

(a) Contractor has, and throughout the Term and any additional periods during which Contractor does or is required to perform the Services, including Hosted Services, will have, the unconditional and irrevocable right, power and authority, including all permits and licenses required, to provide the Services and grant and perform all rights and licenses granted or required to be granted by it under this Contract;

(b) neither Contractor's grant of the rights or licenses hereunder nor its performance of any Services or other obligations under this Contract does or at any time will: (i) conflict with or violate any applicable law, including any law relating to data privacy, data security or personal information; (ii) require the consent, approval or authorization of any governmental or regulatory authority or other third-party; or (iii) require the provision of any payment or other consideration by the State or any Authorized User to any third-party, and Contractor shall promptly notify the State in writing if it becomes aware of any change in any applicable law that would preclude Contractor's performance of its material obligations hereunder;

(c) as accessed and used by the State or any Authorized User in accordance with this Contract and the Specifications, the Hosted Services, Documentation and all other Services and materials provided by Contractor under this Contract will not infringe, misappropriate or otherwise violate any Intellectual Property Right or other right of any third-party;

(d) there is no settled, pending or, to Contractor's knowledge as of the Effective Date, threatened action, and it has not received any written, oral or other notice of any action (including in the form of any offer to obtain a license): (i) alleging that any access to or use of the Services, Hosted Services, or Software does or would infringe,

misappropriate or otherwise violate any Intellectual Property Right of any third-party; (ii) challenging Contractor's ownership of, or right to use or license, any software or other materials used or required to be used in connection with the performance or receipt of the Services, or alleging any adverse right, title or interest with respect thereto; or (iii) that, if decided unfavorably to Contractor, would reasonably be expected to have an actual or potential adverse effect on its ability to perform the Services, including Hosted Services, or its other obligations under this Contract, and it has no knowledge after reasonable investigation of any factual, legal or other reasonable basis for any such litigation, claim or proceeding;

(e) the Software, Services (including Hosted Services) will in all material respects conform to and perform in accordance with the Specifications and all requirements of this Contract, including the Availability and Availability Requirement provisions set forth in Exhibit 1 to this **Schedule C**;

(f) all Specifications are, and will be continually updated and maintained so that they continue to be, current, complete and accurate and so that they do and will continue to fully describe the Hosted Services in all material respects such that at no time during the Term or any additional periods during which Contractor does or is required to perform the Services will the Hosted Services have any material undocumented feature;

(g) the Contractor Systems and Services (including Hosted Services) are and will remain free of Harmful Code;

(h) Contractor will not advertise through the Hosted Services (whether with adware, banners, buttons or other forms of online advertising) or link to external web sites that are not approved in writing by the State;

(i) Contractor will perform all Services in a timely, professional and workmanlike manner with a level of care, skill, practice and judgment consistent with generally recognized industry standards and practices for similar services, using personnel with the requisite skill, experience and qualifications, and will devote adequate resources to meet Contractor's obligations (including the Availability Requirement and Support Service Level Requirements) under this Contract;

(j) During the term of this Contract, any audit rights contained in any third-party software license agreement or end user license agreement for third-party software incorporated in or otherwise used in conjunction with the Services, will apply solely to Contractor's (or its subcontractors) facilities and systems that host the Services (including any disaster recovery site), and regardless of anything to the contrary contained in any third-party software license agreement or end user license agreement, third-party software providers will have no audit rights whatsoever against State systems or networks; and

(k) Contractor acknowledges that the State cannot indemnify any third parties, including but not limited to any third-party software providers that provide software that will be incorporated in or otherwise used in conjunction with the Services, and that notwithstanding anything to the contrary contained in any third-party software license agreement or end user license agreement, the State will not indemnify any third-party software provider for any reason whatsoever.

5.2 <u>DISCLAIMER</u>. EXCEPT FOR THE EXPRESS WARRANTIES IN THIS CONTRACT, CONTRACTOR HEREBY DISCLAIMS ALL WARRANTIES, WHETHER EXPRESS, IMPLIED, STATUTORY OR OTHERWISE UNDER OR IN CONNECTION WITH THIS CONTRACT OR ANY SUBJECT MATTER HEREOF.

SCHEDULE C, EXHIBIT 1 – SUPPORT SERVICES AND SERVICE LEVEL AGREEMENT FOR HOSTED SERVICES

1. Definitions. For purposes of this **Exhibit 1** to **Schedule C**, the following terms have the meanings set forth below. All initial capitalized terms in this Schedule that are not defined in this **Section 1** shall have the respective meanings given to them in the Contract or its associated respective Schedules.

"Actual Uptime" means the total minutes in the Service Period that the Hosted Services are Available.

"Availability" has the meaning set forth in Section 3(a).

"Availability Requirement" has the meaning set forth in Section 3(a).

"Available" has the meaning set forth in Section 3(a).

"Contractor Service Manager" has the meaning set forth in Section 2.1.

"Corrective Action Plan" has the meaning set forth in Section 4.3.

"Critical Service Error" has the meaning set forth in Section 4.

"Exceptions" has the meaning set forth in Section 3.2.

"Force Majeure Event" has the meaning set forth in Section 5.1.

"High Service Error" has the meaning set forth in Section 4.

"Hosted Services" has the meaning set forth in Schedule C.

"Low Service Error" has the meaning set forth in Section 4.

"Medium Service Error" has the meaning set forth in Section 4.

"Resolve" has the meaning set forth in Section 4.1(a).

"Scheduled Downtime" has the meaning set forth in Section 3.3.

"Scheduled Uptime" means the total minutes in the Service Period.

"Service Availability Credits" has the meaning set forth in Section 3.6(a).

"Service Level Credits" has the meaning set forth in Section 4.2.

"Service Level Failure" means a failure to perform the Software Support Services fully in compliance with the Support Service Level Requirements.

"Service Period" has the meaning set forth in Section 3(a).

"Software" has the meaning set forth in the Contract.

"Software Support Services" has the meaning set forth in Section 4.1.

"State Service Manager" has the meaning set forth in Section 2.2.

"**State Systems**" means the information technology infrastructure, including the computers, software, databases, electronic systems (including database management systems) and networks, of the State or any of its designees.

"Support Request" has the meaning set forth in Section 4.

"Support Service Level Requirements" has the meaning set forth in Section 4.

"Term" has the meaning set forth in the Contract.

2. Personnel

2.1 <u>Contractor Personnel for the Hosted Services</u>. Contractor will appoint a Contractor employee to serve as a primary contact with respect to the Services who will have the authority to act on behalf of Contractor in matters pertaining to the receipt and processing of Support Requests and the Software Support Services (the "**Contractor Service Manager**").

2.2 <u>State Service Manager for the Hosted Services</u>. The State will appoint and, in its reasonable discretion, replace, a State employee to serve as the primary contact with respect to the Services who will have the authority to act on behalf of the State in matters pertaining to the Software Support Services, including the submission and processing of Support Requests (the "**State Service Manager**").

3. Service Availability and Service Availability Credits.

(a) <u>Availability Requirement</u>. Contractor will make the Hosted Services Available, as measured over the course of each calendar month during the Term and any additional periods during which Contractor does or is required to perform any Hosted Services (each such calendar month, a "**Service Period**"), at least 99.98% of the time, excluding only the time the Hosted Services are not Available solely as a result of one or more Exceptions (the "**Availability Requirement**"). "**Available**" means the Hosted Services are available and operable for access and use by the State and its Authorized Users over the Internet in material conformity with the Contract. "**Availability**" has a correlative meaning. The Hosted Services are not considered Available in the event of a material performance degradation or inoperability of the Hosted Services, in whole or in part. The Availability Requirement will be calculated for the Service Period as follows: (Actual Uptime – Total Minutes in Service Period Hosted Services are not Available Due to an Exception) ÷ (Scheduled Uptime – Total Minutes in Service Period Hosted Services are not Available Due to an Exception) × 100 = Availability.

3.2 <u>Exceptions</u>. No period of Hosted Service degradation or inoperability will be included in calculating Availability to the extent that such downtime or degradation is due to any of the following ("**Exceptions**"):

- (a) failures of the State's or its Authorized Users' internet connectivity;
- (b) Scheduled Downtime as set forth in Section 3.3.

3.3 <u>Scheduled Downtime</u>. Contractor must notify the State at least twenty-four (24) hours in advance of all scheduled outages of the Hosted Services in whole or in part ("**Scheduled Downtime**"). All such scheduled outages will: (a) last no longer than five (5) hours; (b) be scheduled between the hours of 12:00 a.m. and 5:00 a.m., Eastern Time; and (c) occur no more frequently than once per week; provided that Contractor may request the State to approve extensions of Scheduled Downtime above five (5) hours, and such approval by the State may not be unreasonably withheld or delayed.

3.4 <u>Software Response Time</u>. Software response time, defined as the interval from the time the end user sends a transaction to the time a visual confirmation of transaction completion is received, must be less than two (2) seconds for 98% of all transactions. Unacceptable response times shall be considered to make the Software unavailable and will count against the Availability Requirement.

3.5 <u>Service Availability Reports</u>. Within thirty (30) days after the end of each Service Period, Contractor will provide to the State a report describing the Availability and other performance of the Hosted Services during that calendar month as compared to the Availability Requirement. The report must be in electronic or such other form as the State may approve in writing and shall include, at a minimum: (a) the actual performance of the Hosted Services relative to the Availability Requirement; and (b) if Hosted Service performance has failed in any respect to meet or exceed the Availability Requirement during the reporting period, a description in sufficient detail to inform the State of the cause of such failure and the corrective actions the Contractor has taken and will take to ensure that the Availability Requirement are fully met.

3.6 <u>Remedies for Service Availability Failures</u>.

(a) If the actual Availability of the Hosted Services is less than the Availability Requirement for any Service Period, such failure will constitute a Service Error for which Contractor will issue to the State the following credits on the fees payable for Hosted Services provided during the Service Period ("Service Availability Credits"):

Availability	Credit of Fees		
≥99.98%	None		
<99.98% but ≥99.0%	15%		
<99.0% but ≥95.0%	50%		
<95.0%	100%		

(b) Any Service Availability Credits due under this **Section 3.6** will be applied in accordance with payment terms of the Contract.

(c) If the actual Availability of the Hosted Services is less than the Availability Requirement in any two (2) of four (4) consecutive Service Periods, then, in addition to all other remedies available to the State, the State may terminate the Contract on written notice to Contractor with no liability, obligation or penalty to the State by reason of such termination.

3.7 <u>Service Monitoring and Management</u>. Contractor will continuously monitor and manage the Hosted Services to optimize Availability that meets or exceeds the Availability Requirement. Such monitoring and management includes:

(a) proactively monitoring on a twenty-four (24) hour by seven (7) day basis all Hosted Service functions, servers, firewall and other components of Hosted Service security;

(b) if such monitoring identifies, or Contractor otherwise becomes aware of, any circumstance that is reasonably likely to threaten the Availability of the Hosted Service, taking all necessary and reasonable remedial measures to promptly eliminate such threat and ensure full Availability; and

(c) if Contractor receives knowledge that the Hosted Service or any Hosted Service function or component is not Available (including by written notice from the State pursuant to the procedures set forth herein):

- (i) confirming (or disconfirming) the outage by a direct check of the associated facility or facilities;
- (ii) if Contractor's facility check in accordance with clause (i) above confirms a Hosted Service outage in whole or in part: (A) notifying the State in writing pursuant to the procedures set forth herein that an outage has occurred, providing such details as may be available, including a Contractor trouble ticket number, if appropriate, and time of outage; and (B) working all problems causing and caused by the outage until they are Resolved as Critical Service Errors in accordance with the Support Request Classification set forth in Section 4, or, if determined to be an internet provider problem, open a trouble ticket with the internet provider; and
- (iii) notifying the State that Contractor has fully corrected the outage and any related problems, along with any pertinent findings or action taken to close the trouble ticket.

4. <u>Support Service Level Requirements</u>. Contractor will correct all Service Errors and respond to and Resolve all Support Requests in accordance with the required times and other terms and conditions set forth in this **Section 4** (**"Support Service Level Requirements**"), and the Contract.

4.1 <u>Support Requests</u>. The State will classify its requests for Service Error corrections in accordance with the descriptions set forth in the chart below (each a "**Support Request**"). The State Service Manager will notify Contractor of Support Requests by email, telephone or such other means as the parties may hereafter agree to in writing.

Support Request Classification	Description:			
	Any Service Error Comprising or Causing any of the Following Events or Effects			
Critical Service Error	Issue affecting entire system or single critical production function;			
	 System down or operating in materially degraded state; 			
	• Data integrity at risk;			
	Declared a Critical Support Request by the State; or			
	Widespread access interruptions.			
High Service Error	 Primary component failure that materially impairs its performance; or 			
	• Data entry or access is materially impaired on a limited basis.			
Medium Service Error	Hosted Service is operating with minor issues that can be addressed with an acceptable (as determined by the State) temporary work around.			
Low Service Error	Request for assistance, information, or services that are routine in nature.			

(a) <u>Response and Resolution Time Service Levels</u>. Response and Resolution times will be measured from the time Contractor receives a Support Request until the respective times Contractor has (i) responded to, in the case of response time and (ii) Resolved such Support Request, in the case of Resolution time. "**Resolve**" (including "**Resolved**", "**Resolution**" and correlative capitalized terms) means that, as to any Service Error, Contractor has provided the State the corresponding Service Error correction and the State has confirmed such correction and its acceptance thereof. Contractor will respond to and Resolve all Service Errors within the following times based on the severity of the Service Error:

Support Request Classification	Service Level Metric (Required Response Time)	Service Level Metric (Required Resolution Time)	Service Level Credits (For Failure to Respond to any Support Request Within the Corresponding Response Time)	Service Level Credits (For Failure to Resolve any Support Request Within the Corresponding Required Resolution Time)
Critical Service Error	One (1) hour	Three (3) hours	Five percent (5%) of the Fees for the month in which the initial Service Level Failure begins and five percent (5%) of such monthly Fees for each additional hour or portion thereof that the corresponding Service Error is not responded to within the required response time.	Five percent (5%) of the Fees for the month in which the initial Service Level Failure begins and five percent (5%) of such monthly Fees for the first additional hour or portion thereof that the corresponding Service Error remains un-Resolved, which amount will thereafter double for each additional one-hour increment.
High Service Error	One (1) hour	Four (4) hours	Three percent (3%) of the Fees for the month in which the initial Service Level Failure begins and three percent (3%) of such monthly Fees for each additional hour or portion thereof that the corresponding Service Error is not responded to within the required response time.	Three percent (3%) of the Fees for the month in which the initial Service Level Failure begins and three percent (3%) of such monthly Fees for the first additional hour or portion thereof that the corresponding Service Error remains un-Resolved, which amount will thereafter double for each additional one-hour increment.
Medium Service Error	Three (3) hours	Two (2) Business Days	N/A	N/A
Low Service Error	Three (3) hours	Five (5) Business Days	N/A	N/A

(b) <u>Escalation</u>. With respect to any Critical Service Error Support Request, until such Support Request is Resolved, Contractor will escalate that Support Request within sixty (60) minutes of the receipt of such Support Request by the appropriate Contractor support personnel, including, as applicable, the Contractor Service Manager and Contractor's management or engineering personnel, as appropriate.

4.2 <u>Support Service Level Credits</u>. Failure to achieve any of the Support Service Level Requirements for Critical and High Service Errors will constitute a Service Level Failure for which Contractor will issue to the State the corresponding service credits set forth in **Section 4.1(a)** ("**Service Level Credits**") in accordance with payment terms set forth in the Contract.

4.3 <u>Corrective Action Plan</u>. If two or more Critical Service Errors occur in any thirty (30) day period during (a) the Term or (b) any additional periods during which Contractor does or is required to perform any Hosted Services, Contractor will promptly investigate the root causes of these Service Errors and provide to the State within five (5) Business Days of its receipt of notice of the second such Support Request an analysis of such root causes and a proposed written corrective action plan for the State's review, comment and approval, which, subject to and upon the State's written approval, shall be a part of, and by this reference is incorporated in, the Contract as the parties' corrective action plan (the "**Corrective Action Plan**"). The Corrective Action Plan must include, at a minimum: (a) Contractor's commitment to the State to devote the appropriate time, skilled personnel, systems support and equipment and other resources necessary to Resolve and prevent any further occurrences of the Service Errors giving rise to such Support Requests; (b) a strategy for developing any programming, software updates, fixes, patches, etc. necessary to remedy, and prevent any further occurrences of, such Service Errors; and (c) time frames for implementing the Corrective Action Plan. There will be no additional charge for Contractor's preparation or implementation of the Corrective Action Plan in the time frames and manner set forth therein.

5. Force Majeure.

5.1 <u>Force Majeure Events</u>. Subject to **Section 5.3**, neither party will be liable or responsible to the other party, or be deemed to have defaulted under or breached the Contract, for any failure or delay in fulfilling or performing any term hereof, when and to the extent such failure or delay is caused by: acts of God, flood, fire or explosion, war, terrorism, invasion, riot or other civil unrest, embargoes or blockades in effect on or after the date of the Contract, national or regional emergency, or any passage of law or governmental order, rule, regulation or direction, or any action taken by a governmental or public authority, including imposing an embargo, export or import restriction, quota or other restriction or prohibition (each of the foregoing, a "Force Majeure Event"), in each case provided that: (a) such event is outside the reasonable control of the affected party; (b) the affected party gives prompt written notice to the other party, stating the period of time the occurrence is expected to continue; (c) the affected party uses diligent efforts to end the failure or delay and minimize the effects of such Force Majeure Event.

5.2 <u>State Performance; Termination</u>. In the event of a Force Majeure Event affecting Contractor's performance under the Contract, the State may suspend its performance hereunder until such time as Contractor resumes performance. The State may terminate the Contract by written notice to Contractor if a Force Majeure Event affecting Contractor's performance hereunder continues substantially uninterrupted for a period of five (5) Business Days or more. Unless the State terminates the Contract pursuant to the preceding sentence, any date specifically designated for Contractor's performance under the Contract will automatically be extended for a period up to the duration of the Force Majeure Event.

5.3 <u>Exclusions; Non-suspended Obligations</u>. Notwithstanding the foregoing or any other provisions of the Contract or this Schedule:

- (a) in no event will any of the following be considered a Force Majeure Event:
 - shutdowns, disruptions or malfunctions of Contractor Systems or any of Contractor's telecommunication or internet services other than as a result of general and widespread internet or telecommunications failures that are not limited to the Contractor Systems; or
 - the delay or failure of any Contractor Personnel to perform any obligation of Contractor hereunder unless such delay or failure to perform is itself by reason of a Force Majeure Event.

SCHEDULE D – DATA HOSTING AND SECURITY FOR HOSTED SOFTWARE AND SERVICES

1. **Definitions.** For purposes of this Schedule, the following terms have the meanings set forth below. All initial capitalized terms in this Schedule that are not defined in this **Section 1** shall have the respective meanings given to them in the Contract.

"Contractor Security Officer" has the meaning set forth in Section 2 of this Schedule.

"Contractor Systems" has the meaning set forth in Section 5 of this Schedule.

"FedRAMP" means the Federal Risk and Authorization Management Program, which is a federally approved risk management program that provides a standardized approach for assessing and monitoring the security of cloud products and services.

"FISMA" means the Federal Information Security Modernization Act of 2014 (Pub.L. No. 113-283 (Dec. 18, 2014).

"Hosted Services" means the hosting, management and operation of the information technology infrastructure, including all computing hardware, ancillary equipment, networking, Software, firmware, databases, data, other services (including support and subcontracted services), and related resources for remote electronic access and use by the State and its Authorized Users, including any services and facilities related to disaster recovery obligations.

"NIST" means the National Institute of Standards and Technology.

"PSP" means the State's IT Policies, Standards and Procedures

"PCI" means the Payment Card Industry.

"SSAE" means Statement on Standards for Attestation Engagements.

- Contractor will appoint a Contractor employee to respond to the State's inquiries regarding the security of the Contractor Systems who has sufficient knowledge of the security of the Contractor Systems and the authority to act on behalf of Contractor in matters pertaining thereto ("Contractor Security Officer").
- 3. The State has established Information Technology (IT) PSP's to protect IT resources under the authority outlined in the overarching State 1305.00 Enterprise IT Policy. In no case will the safeguards of Contractor's data privacy and information security program be less stringent than the safeguards used by the State, and Contractor must at all times comply with all applicable State IT policies and standards, of which the publicly available ones are at https://www.michigan.gov/dtmb/0,5552,7-358-82547 56579 56755---,00.html.

This responsibility also extends to all service providers and subcontractors with access to State Data or an ability to impact the contracted solution. Contractor Responsibilities are determined

from the PSP's based on the services being provided to the State, the type of IT solution, and the applicable laws and regulations.

- 4. Protection of the State Data. Throughout the Term and at all times in connection with its actual or required performance of the Services, Contractor will:
 - a. Software or data hosting provided by sub-contractors must be in a government cloud IT environment with FedRAMP authorization and must maintain FedRAMP authorization for the sub-contracted hosting environment(s) throughout the Term, and in the event the contractor is unable to maintain FedRAMP authorization, the State, at its sole discretion, may either a) require the Contractor to move the Software and State Data to an alternative hosting environment selected and approved by the State at Contractor's sole cost and expense without any increase in Fees, or b) immediately terminate this Contract for cause pursuant to Section 23.1 of the Contract;
 - b. for Hosted Services provided directly by the Contractor, maintain either a FedRAMP authorization or an annual SSAE 18 SOC 2 Type II audit based on State required NIST low controls for the Hosted Services throughout the Term;
 - c. ensure that the Software and State Data is securely hosted, supported, administered, and accessed in a data center and backup data center that resides in the continental United States, and minimally meets Uptime Institute Tier 3 standards (www.uptimeinstitute.com), or its equivalent;
 - d. maintain and enforce an information security program including safety and physical and technical security policies and procedures with respect to its Processing of the State's Confidential Information that comply with the requirements of the State's data security policies as set forth in the Contract, and must, at a minimum, remain compliant with FISMA and NIST Special Publication 800-53 (most recent version) LOW Controls using minimum control values as established in the applicable SOM PSP's;
 - e. provide technical and organizational safeguards against accidental, unlawful or unauthorized access to or use, destruction, loss, alteration, disclosure, transfer, commingling or processing of such information that ensure a level of security appropriate to the risks presented by the processing of the State's Confidential Information and the nature of such Confidential Information, consistent with best industry practice and standards;
 - f. take all reasonable measures to:

1. secure and defend all locations, equipment, systems and other materials and facilities employed in connection with the Services against "hackers" and others who may seek, without authorization, to disrupt, damage, modify, access or otherwise use Contractor Systems or the information found therein; and

2. prevent (i) the State and its Authorized Users from having access to the data of other customers or such other customer's users of the Services; (ii) the State's Confidential Information from being commingled with or contaminated by the data of other customers or their users of the Services; and (iii) unauthorized access to any of the State's Confidential Information;

g. ensure that State Data is encrypted in transit and at rest using FIPS validated AES encryption modules with a key size of 128 bits or higher;

- h. ensure that State Data is encrypted in transit and at rest using currently validated encryption modules in accordance with FIPS PUB 140-2 (as amended). *Security Requirements for Cryptographic Modules;*
- i. ensure the Hosted Services support Identity Federation/Single Sign-on (SSO) capabilities using Security Assertion Markup Language (SAML), Open Authentication (OAuth) or comparable mechanisms;
- j. ensure the Hosted Services implements multi-factor authentication for privileged/administrative and other identified access; and
- k. assist the State, at no additional cost, with development, completion and on-going maintenance of a system security plan (SSP) using the State's automated governance, risk and compliance (GRC) platform, which requires Contractor to submit evidence, upon request from the State, in order to validate Contractor's security controls within two weeks of the State's request. On an annual basis, or as otherwise required by the State such as for significant changes, re-assessment of the system's controls will be required to receive and maintain authority to operate (ATO). All identified risks from the SSP will be remediated through a Plan of Action and Milestones (POAM) process with remediation time frames based on the risk level of the identified risk. For all findings associated with the Contractor's solution, at no additional cost, Contractor will be required to create or assist with the creation of State approved POAMs and perform related remediation activities. The State will make any decisions on acceptable risk, Contractor may request risk acceptance, supported by compensating controls, however only the State may formally accept risk. Failure to comply with this section will be deemed a material breach of the Contract.
- 5. Unauthorized Access. Contractor may not access, and shall not permit any access to, State systems, in whole or in part, whether through Contractor's Systems or otherwise, without the State's express prior written authorization. Such authorization may be revoked by the State in writing at any time in its sole discretion. Any access to State systems must be solely in accordance with the Contract and this Schedule, and in no case exceed the scope of the State's authorization pursuant to this Section 4. All State-authorized connectivity or attempted connectivity to State systems shall be only through the State's security gateways and firewalls and in compliance with the State's security policies set forth in the Contract as the same may be supplemented or amended by the State and provided to Contractor from time to time.
- 6. Contractor Systems. Contractor will be solely responsible for the information technology infrastructure, including all computers, hardware, networking, software, data, databases, electronic systems (including database management systems) and networks used by or for Contractor in connection with the Services ("Contractor Systems") and shall prevent unauthorized access to State systems through the Contractor Systems.
- 7. Security Audits. During the Term, Contractor will:
 - a. maintain complete and accurate records relating to its data protection practices, IT security controls, and the security logs of any of the State's Confidential Information, including any backup, disaster recovery or other policies, practices or procedures relating to the State's

Confidential Information and any other information relevant to its compliance with this Schedule;

- b. upon the State's request, make all such records, appropriate personnel and relevant materials available during normal business hours for inspection and audit by the State or an independent data security expert that is reasonably acceptable to Contractor, provided that the State: (i) gives Contractor at least five (5) Business Days prior notice of any such audit; (ii) undertakes such audit no more than once per calendar year, except for good cause shown; and (iii) conducts or causes to be conducted such audit in a manner designed to minimize disruption of Contractor's normal business operations and that complies with the terms and conditions of all data confidentiality, ownership, privacy, security and restricted use provisions of the Contract. The State may, but is not obligated to, perform such security audits, which shall, at the State's option and request, include penetration and security tests, of any and all Contractor Systems and their housing facilities and operating environments; and
- 8. if requested by the State, provide a copy of Contractor's FedRAMP System Security Plan(s) or SOC 2 Type 2 report(s) to the State within two weeks. The System Security Plan and SSAE audit reports will be recognized as Contractor's Confidential Information.
- 9. Infrastructure Scanning. For Hosted Services, Contractor must ensure the infrastructure and applications are scanned using an approved scanning tool (Qualys, Tenable, or other PCI Approved Vulnerability Scanning Tool) at least once every 30 days and provide the scan's assessments to the State in a format that can be uploaded by the State and used to track the remediation. Contractor will ensure that issues identified in the scan are remediated according to the remediation time requirements documented in the State PSPs.
- 10. Nonexclusive Remedy for Security Breach. Any failure of the Services to meet the requirements of this Schedule with respect to the security of any State Data or other Confidential Information of the State, including any related backup, disaster recovery or other policies, practices or procedures, is a material breach of the Contract for which the State, at its option, may terminate the Contract for cause immediately and Contractor must promptly reimburse to the State any Fees prepaid by the State prorated to the date of such termination.

SCHEDULE E – FEDERAL PROVISIONS ADDENDUM

This addendum applies to purchases that will be paid for in whole or in part with funds obtained from the federal government. The provisions below are required and the language is not negotiable. If any provision below conflicts with the State's terms and conditions, including any attachments, schedules, or exhibits to the State's Contract, the provisions below take priority to the extent a provision is required by federal law; otherwise, the order of precedence set forth in the Contract applies. Hyperlinks are provided for convenience only; broken hyperlinks will not relieve Contractor from compliance with the law.

1. Equal Employment Opportunity

If this Contract is a "**federally assisted construction contract**" as defined in <u>41 CFR Part 60-1.3</u>, and except as otherwise may be provided under <u>41 CFR Part 60</u>, then during performance of this Contract, the Contractor agrees as follows:

(1) The Contractor will not discriminate against any employee or applicant for employment because of race, color, religion, sex, sexual orientation, gender identity, or national origin. The Contractor will take affirmative action to ensure that applicants are employed, and that employees are treated during employment without regard to their race, color, religion, sex, sexual orientation, gender identity, or national origin. Such action shall include, but not be limited to the following:

Employment, upgrading, demotion, or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship. The Contractor agrees to post in conspicuous places, available to employees and applicants for employment, notices to be provided setting forth the provisions of this nondiscrimination clause.

(2) The Contractor will, in all solicitations or advertisements for employees placed by or on behalf of the Contractor, state that all qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identity, or national origin.

(3) The Contractor will not discharge or in any other manner discriminate against any employee or applicant for employment because such employee or applicant has inquired about, discussed, or disclosed the compensation of the employee or applicant or another employee or applicant. This provision shall not apply to instances in which an employee who has access to the compensation information of other employees or applicants as a part of such employee's essential job functions discloses the compensation of such other employees or applicants to individuals who do not otherwise have access to such information, unless such disclosure is in response to a formal complaint or charge, in furtherance of an investigation, proceeding, hearing, or action, including an investigation conducted by the employer, or is consistent with the Contractor's legal duty to furnish information.

(4) The Contractor will send to each labor union or representative of workers with which he has a collective bargaining agreement or other contract or understanding, a notice to be provided advising the said labor union or workers' representatives of the Contractor's commitments under this section, and shall post copies of the notice in conspicuous places available to employees and applicants for employment.

(5) The Contractor will comply with all provisions of <u>Executive Order 11246</u> of September 24, 1965, and of the rules, regulations, and relevant orders of the Secretary of Labor.

(6) The Contractor will furnish all information and reports required by <u>Executive Order 11246</u> of September 24, 1965, and by rules, regulations, and orders of the Secretary of Labor, or pursuant thereto, and will permit access to his books, records, and accounts by the administering agency and the Secretary of Labor for purposes of investigation to ascertain compliance with such rules, regulations, and orders.

(7) In the event of the Contractor's noncompliance with the nondiscrimination clauses of this contract or with any of the said rules, regulations, or orders, this Contract may be canceled, terminated, or suspended in whole or in part and the Contractor may be declared ineligible for further Government contracts or federally assisted construction contracts in accordance with procedures authorized in <u>Executive Order 11246</u> of September 24, 1965, and such other sanctions may be imposed and remedies invoked as provided in <u>Executive Order 11246</u> of September 24, 1965, or by rule, regulation, or order of the Secretary of Labor, or as otherwise provided by law.

(8) The Contractor will include the portion of the sentence immediately preceding paragraph (1) and the provisions of paragraphs (1) through (8) in every subcontract or purchase order unless exempted by rules, regulations, or orders of the Secretary of Labor issued pursuant to section 204 of <u>Executive Order 11246</u> of September 24, 1965, so that such provisions will be binding upon each subcontractor or vendor. The Contractor will take such action with respect to any subcontract or purchase order as the administering agency may direct as a means of enforcing such provisions, including sanctions for noncompliance:

Provided, however, that in the event a Contractor becomes involved in, or is threatened with, litigation with a subcontractor or vendor as a result of such direction by the administering agency, the Contractor may request the United States to enter into such litigation to protect the interests of the United States.

The applicant further agrees that it will be bound by the above equal opportunity clause with respect to its own employment practices when it participates in federally assisted construction work: *Provided,* That if the applicant so participating is a State or local government, the above equal opportunity clause is not applicable to any agency, instrumentality or subdivision of such government which does not participate in work on or under the contract.

The applicant agrees that it will assist and cooperate actively with the administering agency and the Secretary of Labor in obtaining the compliance of contractors and subcontractors with the equal opportunity clause and the rules,

regulations, and relevant orders of the Secretary of Labor, that it will furnish the administering agency and the Secretary of Labor such information as they may require for the supervision of such compliance, and that it will otherwise assist the administering agency in the discharge of the agency's primary responsibility for securing compliance.

The applicant further agrees that it will refrain from entering into any contract or contract modification subject to Executive Order 11246 of September 24, 1965, with a contractor debarred from, or who has not demonstrated eligibility for, Government contracts and federally assisted construction contracts pursuant to the Executive Order and will carry out such sanctions and penalties for violation of the equal opportunity clause as may be imposed upon contractors and subcontractors by the administering agency or the Secretary of Labor pursuant to Part II, Subpart D of the Executive Order. In addition, the applicant agrees that if it fails or refuses to comply with these undertakings, the administering agency may take any or all of the following actions: Cancel, terminate, or suspend in whole or in part this grant (contract, loan, insurance, guarantee); refrain from extending any further assistance to the applicant under the program with respect to which the failure or refund occurred until satisfactory assurance of future compliance has been received from such applicant; and refer the case to the Department of Justice for appropriate legal proceedings.

2. Davis-Bacon Act (Prevailing Wage)

If this Contract is a **prime construction contracts** in excess of \$2,000, the Contractor (and its Subcontractors) must comply with the Davis-Bacon Act (<u>40 USC 3141-3148</u>) as supplemented by Department of Labor regulations (<u>29 CFR Part 5</u>, "Labor Standards Provisions Applicable to Contracts Covering Federally Financed and Assisted Construction"), and during performance of this Contract the Contractor agrees as follows:

- (1) All transactions regarding this contract shall be done in compliance with the Davis-Bacon Act (40 U.S.C. 3141- 3144, and 3146-3148) and the requirements of 29C.F.R. pt. 5 as may be applicable. The contractor shall comply with 40 U.S.C. 3141-3144, and 3146-3148 and the requirements of 29 C.F.R. pt. 5 as applicable.
- (2) Contractors are required to pay wages to laborers and mechanics at a rate not less than the prevailing wages specified in a wage determination made by the Secretary of Labor.
- (3) Additionally, contractors are required to pay wages not less than once a week.

3. Copeland "Anti-Kickback" Act

If this Contract is a contract for construction or repair work in excess of \$2,000 where the Davis-Bacon Act applies, the Contractor must comply with the Copeland "Anti-Kickback" Act (<u>40 USC 3145</u>), as supplemented by Department of Labor regulations (<u>29 CFR Part 3</u>, "Contractors and Subcontractors on Public Building or Public Work Financed in Whole or in Part by Loans or Grants from the United States"), which prohibits the Contractor and subrecipients from inducing, by any means, any person employed in the construction, completion, or repair of public work, to give up any part of the compensation to which he or she is otherwise entitled, and during performance of this Contract the Contractor agrees as follows:

- <u>Contractor</u>. The Contractor shall comply with 18 U.S.C. §874, 40 U.S.C. § 3145, and the requirements of 29 C.F.R. pt. 3 as may be applicable, which are incorporated by reference into this contract.
- (2) <u>Subcontracts</u>. The Contractor or Subcontractor shall insert in any subcontracts the clause above and such other clauses as FEMA or the applicable federal

awarding agency may by appropriate instructions require, and also a clause requiring the Subcontractors to include these clauses in any lower tier subcontracts. The prime contractor shall be responsible for the compliance by any subcontractor or lower tier subcontractor with all of these contract clauses.

(3) <u>Breach</u>. A breach of the contract clauses above may be grounds for termination of the contract, and for debarment as a Contractor and Subcontractor as provided in 29 C.F.R. § 5.12.

4. Contract Work Hours and Safety Standards Act

If the Contract is **in excess of \$100,000** and **involves the employment of mechanics or laborers**, the Contractor must comply with <u>40 USC 3702</u> and <u>3704</u>, as supplemented by Department of Labor regulations (<u>29 CFR Part 5</u>), as applicable, and during performance of this Contract the Contractor agrees as follows:

- (1) <u>Overtime requirements</u>. No Contractor or Subcontractor contracting for any part of the contract work which may require or involve the employment of laborers or mechanics shall require or permit any such laborer or mechanic in any workweek in which he or she is employed on such work to work in excess of forty hours in such workweek unless such laborer or mechanic receives compensation at a rate not less than one and one-half times the basic rate of pay for all hours worked in excess of forty hours in such workweek.
- (2) <u>Violation; liability for unpaid wages; liquidated damages</u>. In the event of any violation of the clause set forth in paragraph (1) of this section the Contractor and any Subcontractor responsible therefor shall be liable for the unpaid wages. In addition, such Contractor and Subcontractor shall be liable to the United States (in the case of work done under contract for the District of Columbia or a territory, to such District or to such territory), for liquidated damages. Such liquidated damages shall be computed with respect to each individual laborer or mechanic, including watchmen and guards, employed in violation of the clause set forth in paragraph (1) of this section, in the sum of \$27 for each calendar day on which such individual was required or permitted to work in excess of the standard workweek of forty hours without payment of the overtime wages required by the clause set forth in paragraph (1) of this section.
- (3) <u>Withholding for unpaid wages and liquidated damages.</u> The State shall upon its own action or upon written request of an authorized representative of the Department of Labor withhold or cause to be withheld, from any moneys payable on account of work performed by the Contractor or Subcontractor under any such contract or any other Federal contract with the same prime contractor, or any other federally-assisted contract subject to the Contract Work Hours and Safety Standards Act, which is held by the same prime contractor, such sums as may be determined to be necessary to satisfy any liabilities of such contractor or subcontractor for unpaid wages and liquidated damages as provided in the clause set forth in paragraph (2) of this section.
- (4) <u>Subcontracts</u>. The Contractor or Subcontractor shall insert in any subcontracts the clauses set forth in paragraph (1) through (4) of this section and also a clause requiring the Subcontractors to include these clauses in any lower tier subcontracts. The prime contractor shall be responsible for compliance by any subcontractor or lower tier subcontractor with the clauses set forth in paragraphs (1) through (4) of this section.

5. Rights to Inventions Made Under a Contract or Agreement

If the Contract is funded by a federal "funding agreement" as defined under <u>37 CFR §401.2 (a)</u> and the recipient or subrecipient wishes to enter into a contract with a small business firm or nonprofit organization regarding the substitution of parties, assignment or performance of experimental, developmental, or research work under that "funding agreement," the recipient or subrecipient must comply with <u>37 CFR Part 401</u>, "Rights to Inventions Made by Nonprofit Organizations and Small Business Firms Under Government Grants, Contracts and Cooperative Agreements," and any implementing regulations issued by the awarding agency.

6. Clean Air Act and the Federal Water Pollution Control Act

If this Contract is **in excess of \$150,000**, the Contractor must comply with all applicable standards, orders, and regulations issued under the Clean Air Act (<u>42 USC 7401-7671q</u>) and the Federal Water Pollution Control Act (<u>33 USC 1251-1387</u>), and during performance of this Contract the Contractor agrees as follows:

Clean Air Act

- 1. The Contractor agrees to comply with all applicable standards, orders or regulations issued pursuant to the Clean Air Act, as amended, 42 U.S.C. § 7401 et seq.
- 2. The Contractor agrees to report each violation to the State and understands and agrees that the State will, in turn, report each violation as required to assure notification to the Federal Emergency Management Agency or the applicable federal awarding agency, and the appropriate Environmental Protection Agency Regional Office.
- 3. The Contractor agrees to include these requirements in each subcontract exceeding \$150,000 financed in whole or in part with Federal assistance provided by FEMA or the applicable federal awarding agency.

Federal Water Pollution Control Act

- 1. The Contractor agrees to comply with all applicablestandards, orders, or regulations issued pursuant to the Federal Water Pollution Control Act, as amended, 33 U.S.C. 1251 et seq.
- 2 The Contractor agrees to report each violation to the State and understands and agrees that the State will, in turn, report each violation as required to assure notification to the Federal Emergency Management Agency or the applicable federal awarding agency, and the appropriate Environmental Protection Agency Regional Office.
- 3. The Contractor agrees to include these requirements in each subcontract exceeding \$150,000 financed in whole or in part with Federal assistance provided by FEMA or the applicable federal awarding agency.

7. Debarment and Suspension

A "contract award" (see <u>2 CFR 180.220</u>) must not be made to parties listed on the government-wide exclusions in the <u>System for Award Management</u> (SAM), in accordance with the OMB guidelines at <u>2</u> <u>CFR 180</u> that implement <u>Executive Orders 12549</u> (<u>51 FR 6370; February 21, 1986</u>) and 12689 (<u>54 FR 34131; August 18, 1989</u>), "Debarment and Suspension." SAM Exclusions contains the names of parties debarred, suspended, or otherwise excluded by agencies, as well as parties declared ineligible under statutory or regulatory authority other than <u>Executive Order 12549</u>.

- (1) This Contract is a covered transaction for purposes of 2 C.F.R. pt. 180 and 2 C.F.R. pt. 3000. As such, the Contractor is required to verify that none of the Contractor's principals (defined at 2 C.F.R. § 180.995) or its affiliates (defined at 2 C.F.R. § 180.905) are excluded (defined at 2 C.F.R. § 180.940) or disqualified (defined at 2 C.F.R. § 180.935).
- (2) The Contractor must comply with 2 C.F.R. pt. 180, subpart C and 2 C.F.R. pt. 3000, subpart C, and must include a requirement to comply with these regulations in any lower tier covered transaction it enters into.
- (3) This certification is a material representation of fact relied upon by the State. If it is later determined that the contractor did not comply with 2 C.F.R. pt. 180, subpart C and 2 C.F.R. pt. 3000, subpart C, in addition to remedies available to the State, the Federal Government may pursue available remedies, including but not limited to suspension and/or debarment.
- (4) The bidder or proposer agrees to comply with the requirements of 2 C.F.R. pt. 180, subpart C and 2 C.F.R. pt. 3000, subpart C while this offer is valid and throughout the period of any contract that may arise from this offer. The bidder or proposer further agrees to include a provision requiring such compliance in its lower tier covered transactions.

8. Byrd Anti-Lobbying Amendment

Contractors who apply or bid for an award of **\$100,000 or more** shall file the required certification in Exhibit 1 – Byrd Anti-Lobbying Certification below. Each tier certifies to the tier above that it will not and has not used Federal appropriated funds to pay any person or organization for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, officer or employee of Congress, or an employee of a Member of Congress in connection with obtaining any Federal contract, grant, or any other award covered by 31 U.S.C. § 1352. Each tier shall also disclose any lobbying with non-Federal funds that takes place in connection with obtaining any Federal award. Such disclosures are forwarded from tier to tier up to the recipient who in turn will forward the certification(s) to the awarding agency.

9. Procurement of Recovered Materials

Under <u>2 CFR 200.322</u>, Contractors must comply with section 6002 of the Solid Waste Disposal Act, as amended by the Resource Conservation and Recovery Act.

- (1) In the performance of this contract, the Contractor shall make maximum use of products containing recovered materials that are EPA-designated items unless the product cannot be acquired—
 - 1. Competitively within a timeframe providing for compliance with the

contract performance schedule;

- 2. Meeting contract performance requirements; or
- 3. At a reasonable price.
- (2) Information about this requirement, along with the list of EPA- designated items, is available at EPA's Comprehensive Procurement Guidelines web site, <u>https://www.epa.gov/smm/comprehensive- procurement-guideline-cpg-program</u>.
- (3) The Contractor also agrees to comply with all other applicable requirements of Section 6002 of the Solid Waste Disposal Act.

10. Additional FEMA Contract Provisions.

The following provisions apply to purchases that will be paid for in whole or in part with funds obtained from the Federal Emergency Management Agency (FEMA):

- (1) <u>Access to Records</u>. The following access to records requirements apply to this contract:
 - a. The Contractor agrees to provide the State, the FEMA Administrator, the Comptroller General of the United States, or any of their authorized representatives access to any books, documents, papers, and records of the Contractor which are directly pertinent to this contract for the purposes of making audits, examinations, excerpts, and transcriptions.
 - b. The Contractor agrees to permit any of the foregoing parties to reproduce by any means whatsoever or to copy excerpts and transcriptions as reasonably needed.
 - c. The Contractor agrees to provide the FEMA Administrator or his authorized representatives access to construction or other work sites pertaining to the work being completed under the contract.
 - d. In compliance with the Disaster Recovery Act of 2018, the State and the Contractor acknowledge and agree that no language in this contract is intended to prohibit audits or internal reviews by the FEMA Administrator or the Comptroller General of the United States.
- (2) Changes.

See the provisions regarding modifications or change notice in the Contract Terms.

(3) DHS Seal, Logo, And Flags

The Contractor shall not use the DHS seal(s), logos, crests, or reproductions of flags or likenesses of DHS agency officials without specific FEMA pre-approval.

(4) <u>Compliance with Federal Law, Regulations, and Executive Orders</u>

This is an acknowledgement that if FEMA financial assistance will be used to fund all or a portion of the contract. The Contractor will comply with all applicable Federal law, regulations, executive orders, FEMA policies, procedures, and directives.

(5) <u>No Obligation by Federal Government</u>

The Federal Government is not a party to this contract and is not subject to any obligations or liabilities to the State, Contractor, or any other party pertaining to any matter resulting from the Contract."

(6) <u>Program Fraud and False or Fraudulent Statements or Related Acts</u>

The Contractor acknowledges that 31 U.S.C. Chap. 38 (Administrative Remedies for False Claims and Statements) applies to the Contractor's actions pertaining to this contract.

SCHEDULE E, EXHIBIT 1 – BYRD ANTI-LOBBYING CERTIFICATION

Contractor must complete this certification if the purchase will be paid for in whole or in part with funds obtained from the federal government and the purchase is greater than \$100,000.

APPENDIX A, 44 C.F.R. PART 18 - CERTIFICATION REGARDING LOBBYING

Certification for Contracts, Grants, Loans, and Cooperative Agreements

The undersigned certifies, to the best of his or her knowledge and belief, that:

- 1. No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of an agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.
- 2. If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form-LLL, "Disclosure Form to Report Lobbying," in accordance with its instructions.
- 3. The undersigned shall require that the language of this certification be included in the award documents for all subawards at all tiers (including subcontracts, subgrants, and contracts under grants, loans, and cooperative agreements) and that all subrecipients shall certify and disclose accordingly.

This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by section 1352, title 31, U.S. Code. Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.

The Contractor, ______, certifies or affirms the truthfulness and accuracy of each statement of its certification and disclosure, if any. In addition, the Contractor understands and agrees that the provisions of 31 U.S.C. Chap. 38, Administrative Remedies for False Claims and Statements, apply to this certification and disclosure, if any.

Signature of Contractor's Authorized Official

Name and Title of Contractor's Authorized Official

Date