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October 19, 2026

Addendum # 2.1 for LiDAR Based Street Tree Inventory for New York City Contract

RE: 84627P0002-LiDAR Based Street Tree Inventory for New York City

ATTENTION ALL PROSPECTIVE BIDDERS

A. Please be advised of the following changes to the above contract:

1.1 SECTION II: SCOPE OF WORK, Article 3. Scope of Work, Sub-section 1.2 Data Processing and Analysis, Table 2. Required Metrics, Crown Circumference is being replaced completely with the revised language added and italicized below:

Crown projection area	*The area on the ground bounded by the outermost edge of the tree's crown, i.e., the two-dimensional footprint of the crown projected vertically downward. Measured to the nearest square feet.*

B. Please be advised that "*Answers to Vendors' Questions*" has also been attached to this Addendum.

C. Please be advised that full copies of the following riders, forms and appendices are being added to the end of the contract book and are attached to this Addendum: Paid Sick Leave Law Contract Rider, Community Hiring Contract Rider, Appendix A—General Provisions Governing Contracts for Consultants, Professional and Technical Services, the contract insurance requirements' forms. The Iran Divestment Act affirmation will be filled out via Passport as well as the Doing Business Data Form which will be filled out when submitting a bid under the LL 34 section.

D. Please be advised that the Bid Due date has been extended to the following:

BIDS DUE ON: **October 29th, 2026 @2:00PM**

Correction: There will be no bid opening. The evaluation will occur after the bids are opened. Parks will need time to review, vet and make a decision on a vendor.

Any provisions of the above-referenced contracts that conflict with the aforementioned changes shall be modified to conform to such changes. Such changes shall take precedence over current provisions. Otherwise, the remaining provisions of the contract remain in effect.

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Answers to Vendors' Questions

1	Subcontractor Financials	Can you confirm that sub-contractors do not need to provide financial information?	No, sub-contractors will not be required to provide financial information. All subcontractors must receive prior approval for the Agency ACCO
2	Potential Removals	Potential removals: Should trees included in the existing inventory but not detected in the new dataset be reported separately as potential removals?	Yes, that is fine. The corresponding ForMS IDs should still be reported.
3	Health assessment for newly detected trees	Trees that cannot be matched to the existing inventory will not have a species on record. How should health condition be determined for these trees? Can health be reported without species specific normalization?	For trees that have no existing species record, Parks' staff will coordinate with the arborist on the vendor team to review data and determine species.
4	Health condition	Health condition: Will Parks provide definitions or thresholds for the Excellent, Good, Fair, Poor, and Dead classes, or is the vendor expected to propose these? Should these classifications align with the condition categories used in the 2015 census?	Trees that match the existing inventory should be assigned to the species in the existing data which is available on the NYC Open Data Portal. For trees that have no existing species record, Parks' staff will coordinate with the arborist on the vendor team to review data and determine species. Parks will provide definitions for Excellent, Good, Fair, and Poor condition ratings. The vendor may also propose definitions and we can reach a mutually agreed upon set of definitions. The vendor should propose a methodology that will use these definitions combined with leaf area index and dieback measurements to produce an overall health condition rating. Health condition should be a composite measure using leaf area index and dieback normalized to the species.
5	Questions	• What is the anticipated Order to Work date, and how will the one-year term accommodate the 2027 leaf-on window?	The Order to Work date will be determined once the contract has been registered by the Comptroller’s office.

6	Questions	• What positional and metric accuracy thresholds, sampling rates, and acceptance criteria apply?	Laser scanner: The scanner shall have a range accuracy of ≤ 10 mm and a range precision of ≤ 7 mm at a range of 30 m. Positional accuracy: Positional (absolute) horizontal and vertical accuracy of the point cloud shall be ≤ 10cm RMSE in open-sky conditions, verified against at least 30 independently surveyed checkpoints. Positional accuracy in degraded-GNSS areas (e.g., urban canyons) shall be reported separately, shall be ≤ 25 cm RMSE, and those areas shall be flagged in the deliverable. Metric accuracy: Accuracy of each derived metric shall be assessed as root mean square error (RMSE) against independent field measurements on the verification sample, and shall not exceed the thresholds below. Tree height ≤ 3ft; DBH: diameter (single stem, and multi-stem combined) ≤ 2in; Crown height ≤ 3ft; Lowest limbs ≤ 2ft; Crown projection area ≤ 15% (relative RMSE); Leaf area index ≤ 0.5 LAI units or 15% (relative RMSE), whichever is greater. Sampling rate: The vendor's QA/QC plan must state the field-verification sample, at minimum 200 trees per borough stratified by size class and species group, and checkpoints distributed across each borough. Acceptance criteria: Deliverable are accepted when all thresholds above are met on the verification sample. Affected areas that fail must be reprocessed or re-captured at the vendor's cost. As data is being processed, metrics should be shared with the agency on a rolling basis to accommodate timely review and feedback. Upon final delivery, the vendor shall provide a comprehensive report describing any discrepancies or outliers encountered during data collection and processing, along with the corrective actions taken.
7	Questions	• Where and how is the minimum point density measured?	Point density must meet minimum required specifications at 20mph at 30 meters.
8	Questions	• Does "crown circumference," expressed in square feet, mean crown area or perimeter?	This should be updated to "Crown projection area": the area on the ground bounded by the outermost edge of the tree's crown, i.e., the two-dimensional footprint of the crown projected vertically downward. Measured to the nearest square feet.
9	Questions	• Who supplies or determines species for newly detected trees that have no existing species record?	For trees that have no existing species record, Parks' staff will coordinate with the arborist on the vendor team to review data and determine species.
10	Questions	• Does identifying suitable planting areas require a separate planting-space dataset? That objective is stated, but its deliverable is less explicit.	The Planting Space dataset on the NYC Open Data Portal can be used.
11	Questions	• How will partial-borough awards be evaluated and paid, and what is the expected funding range?	Payment structure can be milestone based, regardless of borough.

12	Questions	• Where will this data be published?	Tree attributes, in tabular format, will be published on the NYC Open Data Portal. Polygons of tree canopy (crown shapes) may also be published on the NYC Open Data Portal.
13	Questions	• Are there any plans for future 3D simulations and integration with 3D visualization platforms beyond ArcGIS?	Not at this time.
14	Questions	• Is it acceptable to use off-shore resources for data processing and management?	Subcontracting will be allowed only with prior approval of the ACCO.
15	Questions	• The RFP states that “the vendor may also provide the raw and classified point cloud data uploaded onto a portable device”. What are the expectations for point cloud data storage and management?	After handoff of data to Parks, there are no expectations of the vendor on data storage or management.
16	Questions	• The RFP states the proposals will be judged by more than price. So why are the bid openings just one hour after the bids are due? (Clarification 1)	Correction: There will be no bid opening. The evaluation will occur after the bids are opened. Parks will need time to review, vet and make a decision on a vendor.
17	Questions	• What is the desired file format and the expected available user interactions with the high-resolution images?	Users will use images within an ESRI or Microsoft Dynamics environment for reference and desktop review of the tree and surrounding elements. JPG, PNG, or TIFF file formats are acceptable. Separately, the digital twin interface must let users interact dynamically with the 3D models and high-resolution images from all sides and download all data and imagery into an ESRI platform
18	Data Schema	Can NYC Parks provide the full data schema for trees and tree beds, including the identifiers and relationships needed to link the delivered data to its existing inventory?	Parks' existing data on trees and tree beds (called "Planting Spaces"), including a data dictionary, is available on the NYC Open Data Portal. Link to data dictionary: https://docs.google.com/spreadsheets/d/1yMfZgcsrvx9M0b3-ZdEQ3WCk2dFxgitCWytTrJSwEAs/edit?gid=0#gid=0 Additional information is availabe on this user guide: https://docs.google.com/document/d/1PVPWFi-WExkG3rvnagQDoBbqfsGzxCKNmR6n678nUeU/edit?tab=t.0 Anything further that is deemed necessary will be provided by NYC Parks during the course of the project.
19	Doing Business Data Form	Section 4, item C - Compliance with Local Law 34 or 2007 required the 'Doing Business Data Form' to be submitted with the proposal. Could you	The 'Doing Business Data Form’ will be filled out via Passport when submitting a bid under the LL 34 section (to be in Compliance with Local Law 34 of 2007).

		please provide the form?	
20	Ranges for Attributes	What are the ranges for good, Fair Excellent, leaf area index and dead?	Trees that match the existing inventory should be assigned to the species in the existing data which is available on the NYC Open Data Portal. For trees that have no existing species record, Parks' staff will coordinate with the arborist on the vendor team to review data and determine species. Parks will provide definitions for Excellent, Good, Fair, Poor, and Dead condition ratings. The vendor may also propose definitions and we can reach a mutually agreed upon set of definitions. The vendor should propose a methodology that will use these definitions combined with leaf area index and dieback measurements to produce an overall health condition rating. Health condition should be a composite measure using leaf area index and dieback normalized to the species.
21	Calculation for Species and Diback	What is your calculation for Species and Diback?	Trees that match the existing inventory should be assigned the species in the existing data which is available on the NYC Open Data Portal. For trees that have no existing species record, Parks' staff will coordinate with the arborist on the vendor team to review data and determine species. Parks will provide definitions for Excellent, Good, Fair, Poor, and Dead condition ratings. The vendor may also propose definitions and we can reach a mutually agreed upon set of definitions. The vendor should propose a methodology that will use these definitions combined with leaf area index and dieback measurements to produce an overall health condition rating. Health condition should be a composite measure using leaf area index and dieback normalized to the species.
22	84627P0002 — subcontractor references, complete riders and integration specifications	Please clarify the following points in the current RFP and addenda: 1. RFP Section III.A.1.a, page 13, requests at least three relevant references for the proposer and each proposed subcontractor. For a proposed subcontractor performing only schema/ForMS identifier validation and API or export integration, may the three references cover that specific software/data component, rather than completed LiDAR tree inventories? Can relevant key staff	The company or its principals are required to have 3 years relevant experience.

		experience or references be considered when the proposing entity is newer, or must all three references be clients of that entity? Please identify any documented applicable alternative; we will not assume one.	
23	84627P0002 — subcontractor references, complete riders and integration specifications	2. Addendum 2 states full Paid Sick Leave and Community Hiring riders have been appended to the contract book, and the original incorporates Appendix A. The public original document ID 247499217 currently downloads as 20 pages and does not contain the full riders, full Appendix A, or an Iran Divestment certification form. Where can proposers obtain the complete current incorporated contract book, all forms and insurance requirements?	Paid Sick Leave and Community Hiring riders, MacBride provisions, full Appendix A and insurance requirements are included in this Addendum. The Iran Divestment Act affirmation will be filled out via Passport when submitting a bid under the LL 34 section.
24	84627P0002 — subcontractor references, complete riders and integration specifications	3. For the separately priced API/plug-in and ESRI/ForMS integration component, what are the agency's current schema, interface/access requirements, allowable environments, sample data and acceptance/reconciliation criteria? Table 2 labels 'crown circumference' using square-foot units; please confirm whether this means projected crown area or a linear circumference and the required calculation/unit.	API/Plug-in: Parks will provide details throughout the course of the project on the API or plug-in component. Parks currently utilizes an integration with Cyclomedia via API where a lat/long pair is sent and the corresponding image is received. This can serve as an example of how it may work. See screenshot. In the future, Parks' forestry application will be hosted on a Microsoft Dynamics environment so please use this information to guide any API or plug-in development. Table 2: This should be updated to "Crown projection area": the area on the ground bounded by the outermost edge of the tree's crown, i.e., the two-dimensional footprint of the crown projected vertically downward. Measured to the nearest square feet. **See associated screenshot for example at end of questions***

25	Questions	Please provide road miles per borough, as offered at the pre-bid conference.	See road miles per borough breakdown, as requested. These are not absolute and should be treated as best possible estimates with the understanding that additional miles may need to be driven. --Bronx - 829 miles --Brooklyn - 1,567 miles --Manhattan - 548 miles --Queens - 2,273 miles --Staten Island - 1,044 miles
26	Questions	The pre-bid indicated accuracy specifications are in the documents. We could not locate them; please identify the section or publish them.	Laser scanner: The scanner shall have a range accuracy of ≤ 10 mm and a range precision of ≤ 7 mm at a range of 30 m. Positional accuracy: Positional (absolute) horizontal and vertical accuracy of the point cloud shall be ≤ 10cm RMSE in open-sky conditions, verified against at least 30 independently surveyed checkpoints. Positional accuracy in degraded-GNSS areas (e.g., urban canyons) shall be reported separately, shall be ≤ 25 cm RMSE, and those areas shall be flagged in the deliverable. Metric accuracy: Accuracy of each derived metric shall be assessed as root mean square error (RMSE) against independent field measurements on the verification sample, and shall not exceed the thresholds below. Tree height ≤ 3ft; DBH: diameter (single stem, and multi-stem combined) ≤ 2in; Crown height ≤ 3ft; Lowest limbs ≤ 2ft; Crown projection area ≤ 15% (relative RMSE); Leaf area index ≤ 0.5 LAI units or 15% (relative RMSE), whichever is greater. Sampling rate: The vendor's QA/QC plan must state the field-verification sample, at minimum 200 trees per borough stratified by size class and species group, and checkpoints distributed across each borough. Acceptance criteria: Deliverable are accepted when all thresholds above are met on the verification sample. Affected areas that fail must be reprocessed or re-captured at the vendor’s cost. As data is being processed, metrics should be shared with the agency on a rolling basis to accommodate timely review and feedback. Upon final delivery, the vendor shall provide a comprehensive report describing any discrepancies or outliers encountered during data collection and processing, along with the corrective actions taken.
27	Questions	Please publish Appendix A, General Provisions, including insurance requirements.	Paid Sick Leave and Community Hiring riders, MacBride provisions, full Appendix A and insurance requirements are included in this Addendum.
28	Questions	If a proposal uses existing third-party LiDAR data, must ownership transfer to the City, or is a perpetual license acceptable?	A perpetual license may be acceptable. Please provide license details in the proposal, including the rights granted to the City to use, share and publish derived data (Parks intends to publish tree attributes on the NYC Open Data Portal), and any restrictions on use of the underlying LiDAR data and imagery. Data ownership terms are governed by the OTI Cloud Services Agreement.

29	Questions	Can a proposal combine existing data for some areas with new capture for others?	Existing data that meets the specifications in the RFP may be combined with new data - this should be clearly stated in the proposal. The proposal needs to specify how the vendor will ensure there will be no data gaps or overlaps so there are no missing or additional (ghost) trees in the final dataset. Metadata should make clear which areas were previously or newly captured.
30	Questions	For the 3D viewer, which subscription terms should be priced, and must it be hosted in a City environment?	Please provide a subscription term for a minimum of one year, with the option to renew and priced annually. The viewer does not need to be hosted on a City environment. Vendor must ensure all cloud-hosted products meet cybersecurity requirements and follow all stated compliance requirements as stated in the RFP.
31	Questions	Is there an M/WBE participation goal for this contract?	There is a 0% MWBE goal for this RFP.
32	Questions	Can we assume that the data is complete and accurate for the trees that are already in the ForMS database? Therefore, those trees only need to be mapped to the 3D model and imagery and the species data does not need to be entered or verified?	All required metrics in Table 2 must be provided for all trees, including those already in the ForMS database. Trees that match must be linked to their ForMS identifiers, new trees reported with null ForMS attributes, and existing trees not detected reported separately as potential removals.
33	Questions	Is there a source for the alternate side parking routes and schedules to optimize LiDAR capture scheduling that minimizes trees blocked by parked vehicles?	Alternate side parking information is published by DOT and available on the NYC Open Data Portal. https://data.cityofnewyork.us/Transportation/Alternate-Side-Parking-signs-locations-NYCDOT/2x64-6f34/about_data
34	Question	We respectfully request an extension to the submission deadline to allow sufficient time to coordinate with subconsultants and team members upon the release of responses to questions.	The bid due date has been extended to October 29th at 2pm.

Example- Screenshot for Question 24*

