PALM BEACH COUNTY
BOARD OF COUNTY COMMISSIONERS
AGENDA ITEM SUMMARY

Meeting Date: March 22, 2016 [x] Consent [ ] Regular [ ] Public Hearing [ ] Workshop

Department:

Submitted by: Information Systems Services (ISS)
Submitted for: Countywide GIS Program

I. EXECUTIVE BRIEF

Motion and Title: Staff recommends motion to:

A. **Approve** a Budget Amendment in the amount of $392,500 in the Information Technology Capital Improvements Fund to recognize interfund transfers from the MSTD-Building Fund and the General Fund;

B. **Approve** a Budget Transfer of $196,360 in the MSTD-Building Fund to move funds from reserves to establish an interfund transfer to the Information Technology Capital Improvements Fund;

C. **Approve** a Budget Transfer of $196,140 in the General Fund to move funds from General Government to establish an interfund transfer to the Information Technology Capital Improvements Fund; and,

D. **Authorize** the County Administrator or designee, ISS Director, to approve and execute the U.S. Geological Survey (USGS) Joint Funding Agreement, with a local match of $512,000 and a USGS grant of $228,000 for a total project cost of $740,000 to start upon date of final execution and end date of March 31, 2017.

Summary: On October 6, 2015 the Board authorized staff to apply for the 3DEP grant (R2015-1403) which was approved in January 2016 by the U.S. Geological Survey. The County's portion of the grant was anticipated to be $226,360 plus external revenues of $115,640 for a total of $342,000. On March 1, 2016 (Agenda Item 3-U-1), additional external revenues have become available which reduces the General Government contribution by $3,860. Opportunities also became available to obtain higher resolution base LiDAR and to negotiate an additional deliverable of building outlines. Planning, Zoning and Building has requested the acquisition of the higher resolution base data and building outlines estimated to cost an additional $170,000. This increases the total amount of the Joint Funding Agreement with USGS to a not to exceed amount of $512,000. (Countywide) (PFK)

Background and Justification: Examples of planned uses of LIDAR data include developing contours to determine water drainage flow, flood mapping, evacuation zones and sea level rise; for measuring buildings and obtaining building footprint information for code enforcement and appraisal purposes; and for agriculture analysis, urban planning and archaeology.

Continued on Page 3...

Attachments:

1. Budget Amendment Document, ISS
2. Budget Transfer Document, General Government
3. Budget Transfer Document, P, Z & B
4. U.S. Department of Interior Geological Survey Joint Funding Agreement
5. October 6, 2015 BCC Agenda Item 3U-2 reference R-2015-1403
6. USGS 3DEP Grant Acceptance Letter dated 1/12/16

Recommended by: Steve Bordelon 3-9-2016
Department Director Date

Approved by: R Baker 3/16/16
County Administrator Date

II. FISCAL IMPACT ANALYSIS

A. Five Year Summary of Fiscal Impact

Fiscal Years	2016	2017	2018	2019	2020
Capital Expenditures	$512,000	$0	0	0	0
Operating Costs	0	0	0	0	0
External Revenues	$(119,500)	$(0)	($0)	($0)	($0)
Program Inc (County)	0	0	0	0	0
In-Kind Match (County)	0	0	0	0	0
NET FISCAL IMPACT	**$392,500**	**$(0)**	**$(0)**	**$(0)**	**$(0)**
# Additional FTE Positions (Cumulative)	0	0	0	0	0

Is Item Included in Current Budget Yes ___ No X

Expend Budget Number: Fund 3901 Dept 491 Unit I343 Objt 6405
Revenue Budget Number: Fund 3901 Dept 491 Unit I343 RevSrc 6690

B. Recommended Sources of Funds / Summary of Fiscal Impact

General Government (0001-760-7615-3401) is contributing $196,140 to this project; Planning, Zoning and Building (1400-600-9900-9902) is contributing $196,360 to this project and external sources (South Florida Water Mgmt District, City of Boynton Beach and Lake Worth Drainage District) are contributing $119,500 to this project for a total County fiscal impact of $392,500.

C. Department Fiscal Review: 3/8/16

III. REVIEW COMMENTS

A. OFMB Fiscal and/or Contract Development & Control Comments:

OFMB 3/3/16

Contract Administration 3/15/16

B. Legal Sufficiency:

3/16/16
Assistant County Attorney

C: Other Department Review:

Department Director

THIS SUMMARY IS NOT TO BE USED AS A BASIS FOR PAYMENT.

Background and Justification:

Continued from Page 1…

Increasing the resolution from 2 to 4 points per square meter will allow better definition of structures and building outlines which will be utilized in many different activities such as enforcement of building codes relative to permitting and inspections, and determining whether a building crosses flood zones. It is more efficient and cost effective to obtain this data as part of the USGS grant due to the prohibitively costly and lengthy process that would be incurred doing a manual effort by the County.

2016 - 0662

BOARD OF COUNTY COMMISSIONERS
PALM BEACH COUNTY, FLORIDA
BUDGET AMENDMENT

FUND 3901 - INFORMATION TECHNOLOGY CAPITAL IMPROVEMENTS

BGRV 490 030716 * 441
BGEX 490 030716 * 1078

ACCOUNT NAME AND NUMBER	ORIGINAL BUDGET	CURRENT BUDGET	INCREASE	DECREASE	ADJUSTED BUDGET	EXPENDED/ ENCUMBERED AS OF 03/07/2016	REMAINING BALANCE
Revenues							
491-M010-6690 Other Contributions and Donations	0	414,218	0	119,500	294,718	0	
491-I343-6690 Other Contributions and Donations	0	0	119,500	0	119,500	0	
800-9100-2068 Transfer In from MSTD-Building Fund 1400	0	0	196,360	0	196,360	0	
800-9100-2000 Transfer In from Gen Gov't Fund 0001	5,986,005	5,986,005	196,140	0	6,182,145	0	
TOTAL RECEIPTS & BALANCES	11,390,176	10,539,954	512,000	119,500	10,932,454		
Expenditures							
491-M010-3401 Other Contractual Services	298,426	548,377	0	119,500	428,877	16,734	412,143
491-I343-6405 Data Processing Equipment	0	0	512,000	0	512,000	0	512,000
TOTAL APPROPRIATIONS & EXPENDITURES	11,390,176	10,539,954	512,000	119,500	10,932,454		

Office of Financial Management and Budget

INITIATING DEPARTMENT/DIVISION
Administration/Budget Department Approval
OFMB Department - Posted

Signatures & Dates

Steve Bordelon, Director, ISS Steve Bordelon

3/14/16

BY BOARD OF COUNTY COMMISSIONERS
AT MEETING OF
March 22, 2016

Deputy Clerk to the
Board of County Commissioners

2016 - 0663

BOARD OF COUNTY COMMISSIONERS
PALM BEACH COUNTY, FLORIDA
BUDGET TRANSFER

FUND 0001 - General Fund

BGEX 490 030716 * 1077

ACCOUNT NAME AND NUMBER		ORIGINAL BUDGET	CURRENT BUDGET	INCREASE	DECREASE	ADJUSTED BUDGET	EXPENDED/ ENCUMBERED AS OF 03/07/2016	REMAINING BALANCE
Expenditures								
0001-820-9100-9257	Tr To Info Technology Cap Impr Fd 3901	5,986,005	5,986,005	196,140	0	6,182,145	5,986,005	196,140
0001-760-7615-3401	Other Contractual Services	200,000	200,000	0	196,140	3,860	0	3,860
TOTAL APPROPRIATIONS & EXPENDITURES				196,140	196,140			

Office of Financial Management and Budget

INITIATING DEPARTMENT/DIVISION
Administration/Budget Department Approval
OFMB Department - Posted

Signatures & Dates

Steve Bordelon, Director, ISS Steve Bordelon 3/14/16

BY BOARD OF COUNTY COMMISSIONERS
AT MEETING OF
March 22, 2016

Deputy Clerk to the
Board of County Commissioners

A-219

2016 - 0664

BOARD OF COUNTY COMMISSIONERS
PALM BEACH COUNTY, FLORIDA
BUDGET TRANSFER

BGEX 600 030716*1070

FUND 1400 MSTD Building

ACCT.NUMBEF	ACCOUNT NAME	ORIGINAL BUDGET	CURRENT BUDGET	INCREASE	DECREASE	ADJUSTED BUDGET	EXPENDED/ ENCUMBERED AS OF 3/7/2016	REMAINING BALANCE
EXPENDITURES								
600-9900-9902	Operating Reserves	27,931,202	27,931,202	0	196,360	27,734,842	0	27,734,842
820-9000-9257	Tr To Info Technology Cap Impr Fd 3901	0	0	196,360	0	196,360	0	196,360
	Total Appropriations & Expenditures			196,360	196,360			

Planning, Zoning & Building
INITIATING DEPARTMENT/DIVISION

Signatures **Date**

Administration/Budget Department Approval 03/07/2016
OFMB Department - Posted 3/14/16

By Board of County Commissioners
At Meeting of 03/22/2016

Deputy Clerk to the
Board of County Commissioners

Form 9-1366
(April 2015)

U.S. DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

JOINT FUNDING AGREEMENT

Customer #:
Agreement #:
Project #:
TIN #:
Fixed Cost Agreement NO

FOR

2016 Palm Beach County, Florida Lidar Collection and Processing Project

THIS AGREEMENT is entered into as of the, 22nd day of March, 2016 by the U.S. GEOLOGICAL SURVEY, UNITED STATES DEPARTMENT OF THE INTERIOR, party of the first part, and the Palm Beach County Board of County Commissioners, party of the second part.

1. The parties hereto agree that subject to availability of appropriations and in accordance with their respective authorities there shall be maintained in cooperation activities for the procurement of lidar data and derivative elevation products (see attached Statement of Work) herein called the program. The USGS legal authority is 43 USC 36C; 43 USC 50; and 43 USC 50b.

2. The following amounts shall be contributed to cover all of the cost of the necessary field and analytical work directly related to this program. 2(b) includes In-Kind Services in the amount of $0.00 .

   (a) by the party of the first part during the period

Amount	Date	to	Date
$177,840.00	Date of last signature		March 31, 2017

   (b) by the party of the second part during the period

Amount	Date	to	Date
$512,000.00	Date of last signature		March 31, 2017

   (c) Contributions are provided by the party of the first part through other USGS regional or national programs, in the amount of: $0.00

   Description of the USGS regional/national program:

   (d) Additional or reduced amounts by each party during the above period or succeeding periods as may be determined by mutual agreement and set forth in an exchange of letters between the parties.

   (e) The performance period may be changed by mutual agreement and set forth in an exchange of letters between the parties.

3. The costs of this program may be paid by either party in conformity with the laws and regulations respectively governing each party.

4. The field and analytical work pertaining to this program shall be under the direction of or subject to periodic review by an authorized representative of the party of the first part.

5. The areas to be included in the program shall be determined by mutual agreement between the parties hereto or their authorized representatives. The methods employed in the field and office shall be those adopted by the party of the first part to insure the required standards of accuracy subject to modification by mutual agreement.

6. During the course of this program, all field and analytical work of either party pertaining to this program shall be open to the inspection of the other party, and if the work is not being carried on in a mutually satisfactory manner, either party may terminate this agreement upon 60 days written notice to the other party.

7. The original records resulting from this program will be deposited in the office of origin of those records. Upon request, copies of the original records will be provided to the office of the other party.

8. The maps, records, or reports resulting from this program shall be made available to the public as promptly as possible. The maps, records, or reports normally will be published by the party of the first part. However, the party of the second part reserves the right to publish the results of this program and, if already published by the party of the first part shall, upon request, be furnished by the party of the first part, at costs, impressions suitable for purposes of reproduction similar to that for which the original copy was prepared. The maps, records, or reports published by either party shall contain a statement of the cooperative relations between the parties.

9. USGS will issue billings utilizing Department of the Interior Bill for Collection (form DI-1040). Billing documents are to be ren dered on the following dates, independent of delivery: April 1, 2016 for $200,000.00, July 1, 2016 for $142,000, September 1 , 2016 for $85,000, and January 1, 2017 for the remaining balance of the agreement amount.. Payments of bills are due withi n 60 days after the billing date. If not paid by the due date, interest will be charged at the current Treasury rate for each 30 d ay period, or portion thereof, that the payment is delayed beyond the due date. (31 USC 3717; Comptroller General File B-21 2222, August 23, 1983).

	U.S. Geological Survey **United States** **Department of the Interior**		Palm Beach County Board of County Commission ers
	USGS Point of Contact		**Customer Point of Contact**
Name:	Louis Driber, Geospatial Liaison to Florida	Name:	Christine Benkly, County GIS Coordinator
Address:	1400 Village Square Blvd, Suite 3-133 Tallahassee, FL 32312	Address:	301 North Olive Ave., West Palm Beach, FL 33401
Telephone:	850-345-9410	Telephone:	561-233-5305
Email:	ldriber@usgs.gov	Email:	cbenkly@pbcgov.org

Signatures and Date

Signature:	KARI CRAUN Digitally signed by KARI CRAUN DN: c=US, o=U.S. Government, ou=Department of the Interior, ou=Geological Survey, cn=KARI CRAUN, 0.9.2342.19200300.100.1.1=14001000295101 Date: 2016.03.03 14:58:04 -06'00'	Date:	Signature: Date:
Name:	Kari J. Craun	Name:	Steve Bordelon
Title:	Director, USGS-NGTOC	Title:	Director, PBC Information System Services

STATEMENT OF WORK

FOR THE

PALM BEACH COUNTY, FLORIDA
2016 LIDAR DATA ACQUISITION AND
PRODUCT DEVELOPMENT PROJECT

BAA G15PS00558 3DEP AWARD

MARCH 1, 2016

1) Purpose:

The USGS, Federal Emergency Management Agency, and Palm Beach County Board of County Commissioners will collaborate to acquire high-resolution LiDAR data and produce derived elevation products covering an area of approximately 2,000 square miles over Palm Beach County, as shown in Attachment A. This project is for 2016 spring acquisition of high resolution LiDAR data and generation of derived products. The LiDAR data will be processed to produce a classified point cloud, tile-based bare earth Digital Elevation Models (DEMs), topographic contours, and related products. In addition, to the extent funding allows, optional deliverables produced include QL2+ point cloud (4 points per meter) and building outlines. All resulting elevation products will be placed in the public domain and will be made available for viewing and download through the USGS National Map.

2) Statement of Work

USGS will select a qualified vendor to perform the LiDAR collection and processing via the Bureau's Geospatial Product and Service Contract (GPSC). GPSC task orders are awarded to qualified vendors through federal government solicitation. Qualified consultants are selected in accordance with Public Law 92-528 (Brooks Act) and FAR 36.6 - Architect-Engineering Services, which establishes a qualifications-based selection process, in which contracts for Architectural and Engineering services are negotiated on the basis of demonstrated competence and qualification for the type of professional services required at a fair and reasonable price. Vendor selection is based on the following 6 criteria (1) Professional qualifications necessary for satisfactory performance of required services; (2) Specialized experience and technical competence in the type of work required; (3) Capacity to accomplish the work in the required time; (4) Past performance on contracts with Government agencies and private industry in terms of cost control, quality of work, and compliance with performance schedules; (5) Location in the general geographical area of the project and knowledge of the locality of the project and (6) Acceptability under other appropriate evaluation criteria. This process is aligned with the Department's consultant RFP and selection process.

USGS will contribute project funding to the project, administer data quality assurance and quality control (QA/QC), and manage all data deliverables. All land surveys conducted in support of this project will be performed by a qualified professional land surveyor licensed by the State of Florida.

The Task Order issued by USGS to the selected GPSC Contractor provides full details regarding project collection requirements and resulting deliverables.

USGS will:

- In combination with FEMA, contribute a BAA share of $228,000 in support of total project cost (USGS: $177,840, FEMA: $50,160).
- Prepare a Task Order for agreed upon products and services.
- Serve as Government Point of Contact during the full period of the Agreement.
- Receive and catalog all project deliverables.
- Inspect all deliverables.
- Prepare product Validation Summary Report(s) and distribute to relevant project Points of Contact.
- Return data to Contractor as needed for error correction/rework.

Palm Beach County Board of County Commissioners will:

- Provide $512,000.00 for production activities associated with LiDAR collection, processing, and derivative product generation. This includes the applicable GPSC assessment fee which is calculated by USGS as 5% of the total contracted project cost.

3) Specifications and Deliverables

All specifications and deliverables will meet or exceed the (Quality Level 2) U.S. Geological Survey LiDAR Guidelines and Base Specification, v 1.2 (*http://pubs.usgs.gov/tm/11b4/*). To supplement USGS specifications, FEMA-specific requirements such as cross section surveys, treatment of bridges and other features appearing in FEMA Procedure Memorandum No. 61 – Standards for LiDAR and Other High Quality Digital Topography, (http://www.fema.gov/media-library/assets/documents/6998?id=2206) will be adhered to and reflected in final product delivery.

4) **Project Data Specifications**

				Absolute Vertical Accuracy for DEMs		
Quality Level	Aggregate nominal pulse spacing	Aggregate nominal pulse density	Minimum DEM Cell Size	RMSEz nonvegetated	NVA at 95-percent confidence level	VVA at 95th percentile
	(m)	(pulses/m2)	(m)	(cm)	(cm)	(cm)
2	<=0.71	>2	1	10	19.6	29.4

NOTE: NVA, non-vegetated vertical accuracy, VVA - vegetated vertical accuracy

Table 1 Key parameters from the USGS Lidar Base Specification 1.2

a) Vertical Datum:
NAVD88 using the most recent approved Geoid model from the National Geodetic Survey (NGS) for purposes of performing conversions from ellipsoidal heights to orthometric heights.

b) Horizontal Datum:
Horizontal NAD83/ High Accuracy Reference Network 2007 adjustment (NAD83/2007).

c) Coordinate System and Projection:
NAD 1983 HARN Florida State Plane, East Zone (0901), units in U.S. Survey Feet.

d) Tiling Scheme:
1,500 x 1,500-foot regular grid.

e) Ground Points:
Full Point Cloud, LAS 1.4 format

f) Contours, Breaklines, Building outlines (optional):
If included as a project deliverable, ESRI file geodatabase format.

g) Data Quality and Flight Season
Where possible:
- LiDAR collection during leaf-off season.
- LiDAR will not be collected prior to 72 hours following a rain event of 0.5-inches or greater within the project area. Ground conditions shall be free of extensive flooding or any other type of inundation.
- LiDAR data collection will not occur during high water events.
- Atmospheric conditions shall be cloud, fog and smoke free during all collection operations.

h) Tie to Existing LiDAR Data
To the extent practical, LiDAR data collected for this project will be tied to LiDAR-derived elevations collected during previous adjacent projects so as to minimize differences in surface elevations at the intersecting seams of the project areas. The relevant adjacent elevation information will be provided to USGS by the customer. The vertical difference along a tie-edge will not exceed the Fundamental Vertical Accuracy (FVA) in consolidated terrains or the Supplemental Vertical Accuracy (SVA) in specific vegetation types.

i) Digital Elevation Model (DEM) and Derived Contours:
Bare Earth, hydro-flattened, grid posting no greater than 1-meter and no less that the design Aggregate Nominal Pulse spacing. DEM data set will comprise of individually tiled DEM files formatted to ESRI 32-bit floating point grid. One foot machine generated topographic contours shall be produced from hydro-flattened bare earth DEMs.

j) Metadata:
Processed LiDAR data and derived products will include FGDC-compliant metadata.

k) Data Delivery Media:
External Hard Drive

5) Schedule and Data Delivery

The LiDAR collection component of this project is planned to occur from April 1, 2016 through May 15, 2016, or as acceptable capture conditions allow. All processed data and derived products defined in the USGS project Task Order will be sent directly to USGS National Geospatial Technical Operations Center by the GPSC Contractor for evaluation.

USGS will evaluate project deliverables within 60 days of receipt. Substandard deliverables will be returned to the Contractor for correction/rework. The Contractor will remedy all discrepancies identified and return corrected deliverables to USGS within 30 days of notification for subsequent inspection. Upon acceptance of project deliverables, the Contractor will provide a copy of all deliverables to the Palm Beach County Board of County Commissioners LiDAR project Point of Contact.

6) Other terms

Every effort will be made to award contract(s) to complete the work as described in this SOW. However, if the total funding amount is not sufficient to complete the work as described, then adjustments will be made to either obtain additional funding, or, the project will be re-scoped to the mutual satisfaction of all stakeholders. To the extent funding allows, optional deliverables produced will include QL2+ point cloud (4 points per meter) and building outlines as defined by Palm Beach County Board of County Commissioners, in the following prioritized order:

1) QL2+
2) Building outlines for the entire PBC AOI
3) Building outlines in Boynton Beach
4) Building outlines for unincorporated PBC (1650 sq. miles)
5) Building outlines for the "URA" (42 sq. miles) and in the Archaeology areas of interest (291 sq. miles)
6) Building outlines in the Glades "USA" (60 sq. miles)

Data over military properties is not anticipated to be shared with partners or the public, unless clearance is provided. Should unexpected restrictions affect access to other data over military properties, then only federal funds will be applied to those areas.

Data acquisition will be scheduled to begin at the east (Atlantic) coast of Palm Beach County and progress westward. If data acquisition cannot be completed during a single season due to unacceptable capture conditions, then it is possible that the remaining AOI would be acquired during the next suitable collection window which may or may not be in the same calendar year.

7) **Contacts**

USGS Financial Contacts:		**Palm Beach Co. Financial Contact:**
Jim Almekinder	Name	Robert Busch
US Geological Survey		Palm Beach County Board of County Commissioners
1400 Independence Road, MS317	Address	301 N Olive Ave
Rolla, MO 65401		West Palm Beach, FL 33401
573-308-3549	Telephone	561-355-2918
jalmekinder@usgs.gov	E-Mail	rbusch@pbcgov.org
Debbie Prater	Name	
US Geological Survey		
1400 Independence Road, MS318	Address	
Rolla, MO 65401		
573-308-3643	Telephone	
dprater@usgs.gov	E-Mail	

USGS Delivery to:		**Palm Beach Co. Delivery to:**
Patrick Emmett	Name	Christine Benkly
US Geological Survey		Palm Beach County Board of County Commissioners
1400 Independence Road	Address	301 N. Olive Ave
Rolla, MO 65401		West Palm Beach, FL 33401
573-308-3587	Telephone	561-233-5305
pemmett@usgs.gov	E-Mail	cbenkly@pbcgov.org

Attachment A

PALM BEACH COUNTY, FLORIDA
2016 LIDAR DATA ACQUISITION AND
PRODUCT DEVELOPMENT PROJECT

Agenda Item #: 3U-2

TIMB 7-0
R-2015-1403

PALM BEACH COUNTY
BOARD OF COUNTY COMMISSIONERS
AGENDA ITEM SUMMARY

Meeting Date: October 6, 2015 [ ] Consent [x] Regular
[ ] Public Hearing [ ] Workshop

Department:

Submitted by: Information Systems Services
Submitted for: Countywide GIS Program

I. EXECUTIVE BRIEF

Motion and Title: Staff recommends motion to:

A. **Approve** electronic submittal of a grant application and associated documents to the U.S. Geological Survey (USGS) for a 3D Elevation Mapping Program (3DEP) Grant No. G15PS00558 in the amount of $228,000 with a local match of $342,000 for a total project cost of $570,000 expected to begin January 2016 and end December 31, 2017;

B. **Adopt** a Resolution permitting the County to advance funding to USGS to initiate the mapping if Palm Beach County is awarded the grant; and

C. **Authorize** the County Administrator or her designee, ISS Director, to approve the grant agreement from USGS.

Summary: The USGS has published a Broad Agency Announcement for the 3DEP grant program which will fund awarded projects to acquire Light Detection and Ranging (LiDAR) mapping for critically targeted geographic areas that have been identified by multiple federal agencies. These agencies have identified southern coastal areas as a priority, as well as locations without LiDAR coverage, or where existing data are eight years or older. Palm Beach County fits these criteria. The LiDAR data will be used to assist with the FEMA corrected flood maps. The LiDAR base data has value for developing additional products via Task Orders for many other uses across several departments and agencies. Staff is exploring cost-sharing partnerships where at least two entities have expressed an interest in participating in the grant application. The total project amount is $570,000 of which the local match for the 3DEP grant, if awarded, is estimated to be 60% or $342,000. The grant funding if awarded will go to USGS. We hope to lower the County's obligation by entering into interlocal agreements with other local entities. SFWMD has agreed to contribute $81,000 upon receipt of the deliverable. A Resolution is provided to enable the County to advance funding to the USGS under this grant. (Countywide) (PFK)

Background and Justification:
Continued on page 3...

Attachments:

1. Draft Grant Application
2. Resolution
3. Letters of support for the LiDAR acquisition

Recommended by: Steve Bradshaw 9-18-2015
Department Director Date

Approved by: [signature] 9/30/2015
County Administrator Date

II. FISCAL IMPACT ANALYSIS

A. Five Year Summary of Fiscal Impact

Fiscal Years	2016	2017	2018	2019	2020
Capital Expenditures	$342,000	$0	0	0	0
Operating Costs	$0	0	0	0	0
External Revenues	($115,640*)	($0)	$0	$0	$0
Program Inc (County)	0	0	0	0	0
In-Kind Match (County)	0	0	0	0	0
NET FISCAL IMPACT	**$226,360**	**$0**	**$0**	**$0**	**$0**
# Additional FTE Positions (Cumulative)	0	0	0	0	0

Is Item Included in Current Budget Yes X No ___

Operating Budget Number: Fund TBD Dept TBD Unit TBD Object TBD**
Revenue Budget Number: Fund ____ Dept ____ Unit ____ RevSrc ____

B. Recommended Sources of Funds / Summary of Fiscal Impact
*This amount consists of the expected contributions from external agencies to the best of our knowledge as of 9/17/15 as indicated below:

South Florida Water Management District	$81,140
Lake Worth Drainage District	$25,000
City of Boynton Beach	$ 9,500

This figure could increase before the final grant is awarded which will further lower the County's obligation. The grant award of $228,000 will not be received by the County but sent directly to USGS. Therefore, it is not included in the above analysis.

**Per the GIS Policy Advisory Committee meeting on 9/16/15, specific accounts to advance payment have yet to be discretely identified. However, these accounts will be identified by the final grant award.

C. Department Fiscal Review: 9/18/15

III. REVIEW COMMENTS

A. OFMB Fiscal and/or Contract Development & Control Comments:

OFMB 9/18 9/22

Contract Administration 9/29/15 B Wheeler 9-29-15

B. Legal Sufficiency:

Assistant County Attorney 9/29/15

C: Other Department Review:

Department Director

THIS SUMMARY IS NOT TO BE USED AS A BASIS FOR PAYMENT.

Continued from page 1...

Background and Justification: The LiDAR maps provided through the 3DEP grant must meet their stringent specifications. In order to minimize risk it is preferred to have the grantor manage and provide quality assurance under their existing, certified mapping vendors. This requires the County to advance payment to this federal agency (USGS). Funding for the County's portion has been identified in Planning, Zoning and Building and County Administration budgets.

Interest in the LiDAR data has been expressed for developing contours to determine water drainage flow, flood mapping, evacuation zones and sea level rise; for measuring buildings and obtaining building footprint information for code enforcement and appraisal purposes; and for agriculture analysis, urban planning and archaeology, among other uses.

With this grant, the base LiDAR data would be acquired and the data would be hosted and distributed by ISS. Additional task orders will be determined based on funding and partnerships developed by Countywide GIS for projects that cross jurisdictional boundaries such as water planning, hydrological studies and infrastructure plans.

Letters and emails of support are also attached.

DRAFT

US Geological Survey
Broad Agency Announcement for 3D Elevation Program (3DEP)
G15PS00558
Pre-proposal Submission

Instructions: Enter text or value. Press TAB to register the entry in other parts of the submission tool.

Organization: Palm Beach County Board of County Commissioners Date: 8/24/15

POC: Countywide GIS
First Name: Christine Last Name: Benkly Title: Coordinator

Street Address: 2300 N. Jog Rd

City: West Palm Beach State: FL Zip Code: 33411

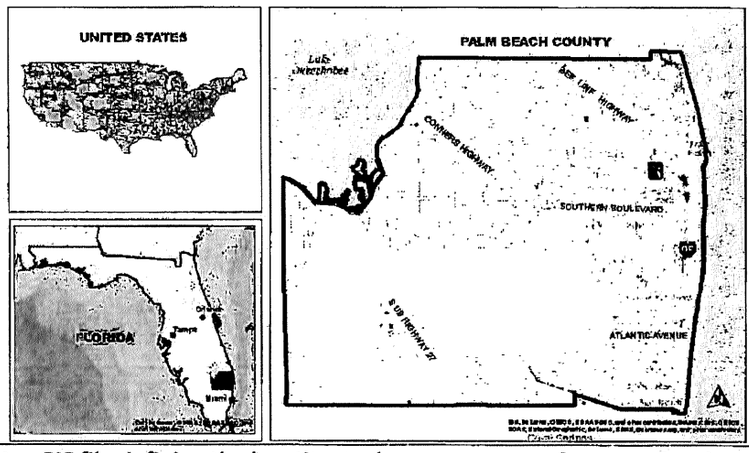
Email Address: cbenkly@pbcgov.org Phone: (561)233-5305

Additional Details or Clarifications:

Project Title: *(300 characters maximum)*	2016 Palm Beach County LiDAR Project
Project Summary: *(3000 characters maximum)*	Please provide a summary of your project. Summary should include purpose and justification of proposed acquisition and relationship of project to existing, in-work, or planned acquisitions. Palm Beach County (PBC) recognizes the need for high-quality topographic data as a foundation for a wide range of applications including flood risk management, infrastructure management, building footprints and surface models, agriculture management, natural resource conservation, coastal feature mapping and transportation studies. PBC is proposing a multi-agency partnership with key stakeholders funding the initial LiDAR data acquisition. Many of the County's 38 municipalities support the project and plan to partner with PBC in acquiring additional products. PBC Countywide GIS has built a mature enterprise GIS infrastructure for managing and distributing large datasets. PBC has been identified as an FY16 Federal Area of Interest for LiDAR data acquisition by NOAA and USACE. There is no existing LiDAR data for almost 300 square miles of PBC, and existing LiDAR for the remainder of the PBC is over eight years old and does not meet QL2 standards. This project will further the quality and availability of three dimensional elevation data and provide great benefits to the citizens of PBC. PBC is requesting a $228,000 USGS award, a 40% cost share of the estimated $570,000 project.

	PBC is located in southeast Florida bordering Lake Okeechobee and the Everglades on the west and south, and the Atlantic Ocean on the east. PBC's approximately 2000 square miles is made up of a diversity of native habitat and urban development. Several existing projects and initiatives in PBC will benefit greatly from the availability of high quality LiDAR data: Natural Areas - PBC owns or leases 48 square miles of natural areas to preserve rare and diverse native ecosystems and endangered, threatened, and rare species of plants and animals. Sea Level Rise - With an estimated maximum elevation of less than 60 feet, high resolution elevation data is critical for flood risk management and sea level rise studies. Emergency Management - PBC's forty-five mile coastline is extremely vulnerable to hurricanes and tropical storms and effective storm surge modeling and evacuation route planning require accurate elevation data. Flooding risks also exist in low lying inland areas and the western regions bordering Lake Okeechobee along the USACE Herbert Hoover Dike. National Flood Insurance Rate Maps – PBC's current DFIRMs are almost 20 years old. Updated elevation data will benefit the citizens of PBC by providing accurate base flood elevations and improved flood insurance rate determinations. Everglades Restoration - Recognizing that a healthy ecosystem is vital to a healthy economy, a number of initiatives are underway to improve water quality, increase water storage and re-establish more historic flows. National Flood Insurance Program Community Rating System (CRS) – Building footprints and base flood elevations can be derived from accurate LiDAR data, providing additional points toward Public Information Activities for PBC's CRS submittal.

GEOGRAPHIC EXTENT OF PROJECT

State(s):	FL
Geographic Extent:	X County(ies) Please specify: Palm Beach ☐ Watershed Please specify: ☐ Other Please specify:
Square Miles:	2000 *Note: Please hit TAB after entering square miles to autopopulate "Square Miles" field in project finance tables.*
Project Diagram:	Insert a jpeg or other picture by clicking on the center of the image box below or by using copy (CTRL-C)/paste (CTRL-V). 
Project GIS File: *Acknowledgement required; please read and check box*	A vector GIS file defining the location and coverage area of your project is required for pre-proposal submission; it is understood that the project area may be adjusted prior to the submission of a full proposal. Your project area must be represented by a polygon in shapefile or KML/KMZ format. The file name should use the following naming convention: ST_Geographic Description where: ST= State Abbreviation (ex. AL. or UT); AND Geographic Description (ex. Blue_Arrow_Middle_Counties or Eastern_Utah_6_Counties) *Note: Minimum shapefile components required are: .shp, .sbx, .dbf, .prj.* X A project vector GIS file with proper file name and format has been submitted as a part of the proposal submission package.
Additional Details or Clarifications:	Letters of support from supporting municipalities, water control districts and other regional agencies will be provided with the final submission.

PROPOSED TIMELINE

Acquisition: *(Select Only One Option)*	x Spring 2016 ☐ Fall 2016 /Winter 2017 ☐ Other:
Additional Details or Clarifications:	

DATA SPECIFICATION

Data must adhere to the USGS Lidar Base Specifications v1.2. In addition to the requirements outlined in the USGS Base Lidar Specification v1.2, lidar data and derived products must meet the current definition of Quality Level 2 (QL2). Upgrades to QL1 are allowed but the cost of the upgrades is the responsibility of the applicant.

Project will be collected to: *(Select Only One Option)*	X QL2 *(Use QL2 Project Costs Table)* ☐ QL1 *(Use QL1 Project Costs Table)* ☐ QL1 / QL2 combination (Provide details and/or delineate QL1 and QL2 Areas on project graphic) *(Use QL1 Project Costs Table)* ☐ Other:
Additional Details or Clarifications:	

DATA DELIVERABLES

Standard 3DEP deliverables are defined in the USGS Lidar Base Specification v1.2

Final Project Deliverables: *Acknowledgement required; please read and check box*	Standard period of performance for lidar acquisition projects is 12 to 24 months. Project deliverables are **required** at the end of the performance period. x The applicant agrees to provide all project deliverables to the USGS without use restrictions upon final acceptance of the project deliverables from applicant's contractor.
Additional Products and Services:	Additional products are available. The cost of additional products is the responsibility of the applicant and should be referenced and priced in the submission of a full proposal. Selection of additional deliverables is not required in the submission of a pre-proposal.

APPROACH TO DATA ACQUISITION

Mechanism: *(Select Only One Option)*	X **USGS Geospatial Products and Services Contract (GPSC)** Applicant enters into agreement with the USGS GPSC to procure data. The USGS National Geospatial Program's preferred method of data acquisition is through the GPSC, a multiple award acquisition vehicle that is designed to utilize the teams of firms on the contract for services needed to accomplish 3DEP data acquisition. ☐ **Cooperative Agreement** Applicant manages data procurement (detail technical approach below).
Technical Approach (Cooperative Agreement Only): *(1500 characters maximum)*	Please provide a qualifications statement describing your proposed technical approach for acquiring and performing quality assurance of lidar data and derived products. Include information on your approach to selecting a vendor. If a vendor has already been selected please provide a brief summary of the vendor's experience and past performance as related to the acquisition and processing of lidar data that meets USGS Base Lidar Specification v1.2

PROJECT FINANCES

Project Costs

It is understood that the cost estimates in pre-proposals may change before final submission. Cost estimates should be sufficient to allow 3DEP to evaluate the project costs and the percentage of the project costs that are being requested from the 3DEP program. To calculate your project costs use **EITHER** the QL2 Project Costs table **OR** the QL1 Project Costs table. For projects that contain a combination of QL1 and QL2 use the QL1 Project Costs table.

QL2 Project Costs

The 3DEP uses an average figure of $335.00 per square mile (QL2) to estimate the cost of lidar collection over the United States. This average cost includes data acquisition, processing, 3DEP quality assurance/quality control as well as project/contract management (including 5% assessment for the use of the USGS GPSC). Collection, processing and contract management costs represent about 85 percent ($285 per square mile) of the total cost for QL2 data. It is important to note that as this is an average cost, in some geographic areas of the country the price will be higher, and for some the cost to acquire the data will be lower. For the pre-proposal, applicants may choose to use the $285 figure to estimate their project acquisition, processing and assessment cost or alternately they may provide another cost estimate together with an explanation of how the cost estimate was derived to enable an evaluation of the costs.

QL2 over entire Project Area: *(Select Only One Option)*	x	The applicant is using the average 3DEP QL2 acquisition, processing and contract management cost of $285 per square mile to estimate project costs.
	☐	The applicant is using an alternate QL2 figure to estimate project acquisition and processing costs. Please provide explanation of how estimated cost was derived:

		Square miles	Cost per square mile	Costs
Total project area		2000		
Cost of 3DEP base data (QL2) for project area 3DEP-will consider cost share on this portion of the project costs				
(Use One Estimate Option Only)	Estimate using the 3DEP average base price	2000	$285	$570,000.00
	Estimate from Other source	2000	$0.00	$ 0.00

QL1 Project Costs

QL1 Project Costs vary significantly by geographic area. For applicants proposing to use the Geospatial Products and Services Contracts for data acquisition, please work with the GPSC team (gpsc@usgs.gov) to obtain a cost estimate for your proposed project. This option must be requested no later than 08/01/15 to meet the 08/25/15 deadline for project submission. For those applicants proposing to manage their own data acquisition, please provide an explanation sufficient to enable evaluation of how the cost was derived. 3DEP will evaluate an applicant's proposed cost share based on the average 3DEP QL2 acquisition and processing cost of $285 per square mile over the project area. Upgrade costs (the difference between QL1 and QL2) are the responsibility of the applicant.

QL2 Base Data with QL1 Data over selected areas or QL1 Data over entire area: *(Select Only One Option)*	☐ **QL1/QL2** The applicant requires QL1 data over at least a portion of the project area and has received a cost estimate from the GPSC team for the total cost to acquire and process both the QL1 data and the QL2 data components of their project area.
	☐ **QL1/QL2** The applicant requires QL1 data over at least a portion of the project area and has used an alternate (non GPSC) source to estimate project costs. *Please provide explanation of how estimated cost was derived:

		Square miles	3DEP Average Cost per square mile	Costs
Total project area		2000		
Total project costs (both QL1 and QL2 areas)				
(Use One Estimate Option Only)	Estimate from GPSC			
	Estimate from Other source			
Cost of 3DEP base data (QL2) for project area 3DEP cost share calculated on this portion of the project costs		2000	$285	$570,000.00
Applicant responsible for the full cost of this (upgrade to QL1) portion of the project				($570,000.00)

Proposed Funding

Applicant shall enter the proposed funding partners and the total funding available from each partner. For the pre-proposal, the applicant may choose to enter a generic "funding partners" to provide the estimated amount that will be contributed collectively by the funding partners. In the full proposal, all funding partners must be individually listed.

Total Estimated Project Cost ***(from previous page)*****:**	$570,000.00			
Funding Partner(s)	**Proposed Contribution Amount**	**% Cost Share for 3DEP Base Data over area**	**Certainty of Contribution** (Guaranteed, Pending)	**If funding is 'Pending'-** (not yet guaranteed)**; note date** (MMM YYYY) **when funding decision will be final.**
Palm Beach County	$226360.00		Pending	October 2015
South Florida Water Management District	$81140.00		Pending	October 2015
Lake Worth Drainage District	$25000.00		Pending	October 2015
City of Boynton Beach	$9500.00		Pending	
	$		Choose One	
	$		Choose One	
	$		Choose One	
	$		Choose One	
	$		Choose One	
	$		Choose One	
Funding Partner Totals *(from above)*	$342,000.00	60%		
Cost of 3DEP base data (QL2) for project area (from previous page) 3DEP cost share calculated on this portion of the project costs	$570,000.00			
Funds Requested from 3DEP	$228,000.00	40%		

ADDITIONAL PROJECT DETAILS OR CLARIFICATIONS

(1500 characters maximum)

Village of Palm Springs
Land Development
226 Cypress Lane • Palm Springs, Florida 33461
(561) 965-4016 Fax (561) 439-4132

August 10, 2015

Christine Benkly, GISP
Countywide GIS Coordinator
Palm Beach County ISS
2300 N. Jog Road
West Palm Beach, FL 33411

RE: LiDAR Mapping Initiative

Dear Ms. Benkly:

The Village of Palm Springs supports Palm Beach County's application for funding in response to the USGS 3D Elevation Program Broad Agency Announcement for Solicitation Number: G15PS00558.

The Village of Palm Springs is a municipality of approximately 4 square miles with a population of 22,000 persons located within central Palm Beach County. Funding for a countywide Light Detection and Ranging (LiDAR) mapping initiative would provide numerous benefits. We envision that Palm Beach County along with the incorporated municipalities will work together cooperatively, sharing the acquired LiDAR data, to undertake projects that cross jurisdictional boundaries such as storm-water planning, hydrological studies, and infrastructure plans.

Countywide LiDAR will enhance the well-established geospatial database that is already available. Palm Beach County has the capabilities to accommodate the data collected through the LiDAR initiative, and is therefore an excellent candidate for the receiving the funding through the USGS 3D Elevation Program.

Please feel free to call me at (561) 965-4016.

Sincerely,

Kim Glas-Castro, AICP LEED AP
Land Development Director

STORMWATER J ENGINEERING, INC.

1855 Indian Road, Suite 202
West Palm Beach, FL 33409
stormj@fdn.com

(561) 242-0028
Fax 242-0109

August 13, 2015

Christine Benkly, GISP
Countywide GIS Coordinator
Palm Beach County ISS
2300 N. Jog Road
West Palm Beach, FL 33411

RE: LiDAR Mapping Initiative
SJE Project #91084.301

Dear Ms. Benkly:

This letter is in support of Palm Beach County's application for funding in response to the USGS 3D Elevation Program Broad Agency Announcement Solicitation Number G15PS00558.

ITID's interests are in better topo for flood mapping, stormwater planning, and hydrological studies.

We are entirely within Palm Beach.

Palm Beach County has a sophisticated geospatial data collection and management program that will allow it to facilitate data sharing and partnership coordination, thereby assisting us to provide improved services to our citizens. Palm Beach County has demonstrated a willingness to share resources with other government agencies (local, regional and state), and in our opinion makes them a well-qualified applicant for funding.

Please feel free to contact me if you have any questions.

Sincerely,

Jay G. Foy, P.E.
District Engineer, Indian Trail Improvement District

JGF/lam
Cc: James Shallman
Mary Viator

2015_0813 Benkly Ltr
91084.301

500 Greynolds Circle
Lantana, FL 33462-4544
(561) 540-5000
Fax (561) 540-5009
www.lantana.org

"To Preserve Lantana's hometown atmosphere through responsible government and quality service."

August 13, 2015

Christine Benkly, GISP
Countywide GIS Coordinator
Palm Beach County ISS
2300 N. Jog Road
West Palm Beach, FL 33411

RE: LiDAR Mapping Initiative

Dear Ms. Benkly:

This letter is in support of Palm Beach County's application for funding in response to the USGS 3D Elevation Program Broad Agency Announcement Solicitation Number G15PS00558.

Obtaining this data will provide a number of benefits, including:

- More accurate data for Flood Insurance Rate Maps
- Storm-water planning
- Hydrological studies
- Environmental assessments
- Infrastructure elevation and inventories for bridges, buildings, etc.
- Accurate data for estimating construction projects
- Updating evacuation zones

We certify that our jurisdiction is located within or overlapping Palm Beach County's jurisdictional boundary.

The County has a well-established geospatial data program and is in the best position to effectively manage the distribution of the large datasets that will result from this program. Palm Beach County has a sophisticated geospatial data collection and management program that will allow it to facilitate data sharing and partnership coordination, thereby assisting us to provide improved services to our citizens. Palm Beach County has demonstrated a willingness to share resources with other government agencies (local, regional and state), and in our opinion makes them a well-qualified applicant for funding.

Please feel free to contact me if you have any questions.

Sincerely,

Deborah S. Manzo
Town Manager

Town of Cloud Lake
Florida · est. 1963

100 LANG ROAD, WEST PALM BEACH, FL 33406-3222
Phone: (561) 686-2815 • Fax: (561) 683-5120
e-mail: townofcloudlake@msn.com

August 14, 2015

Christine Benkly, GISP
Countywide GIS Coordinator
Palm Beach County ISS
2300 N. Jog Road
West Palm Beach, FL 33411

RE: LiDAR Mapping Initiative

Dear Ms. Benkly:

This letter is in support of Palm Beach County's application for funding in response to the USGS 3D Elevation Program Broad Agency Announcement Solicitation Number G15PS00558.

Obtaining this data will provide a number of benefits, including:

- More accurate data for Flood Insurance Rate Maps
- Storm-water planning
- Hydrological studies
- Environmental assessments
- Infrastructure elevation and inventories for bridges, buildings, etc.
- Accurate data for estimating construction projects
- Updating evacuation zones

We certify that our jurisdiction is located within or overlapping Palm Beach County's jurisdictional boundary.

The County has a well-established geospatial data program and is in the best position to effectively manage the distribution of the large datasets that will result from this program. Palm Beach County has a sophisticated geospatial data collection and management program that will allow it to facilitate data sharing and partnership coordination, thereby assisting us to provide improved services to our citizens. Palm Beach County has demonstrated a willingness to share resources with other government agencies (local, regional and state), and in our opinion makes them a well-qualified applicant for funding.

Please feel free to contact me if you have any questions.

Sincerely,

W. Patrick Slatery
Mayor

The City of Boynton Beach

OFFICE OF THE CITY MANAGER
100 E. Boynton Beach Boulevard
P.O. Box 310
Boynton Beach, Florida 33425-0310
City Manager's Office: (561) 742-6010
FAX: (561) 742-6011
www.boynton-beach.org

August 31, 2015

Christine Benkly, GISP
Countywide GIS Coordinator
Palm Beach County ISS
2300 N. Jog Road
West Palm Beach, FL 33411

RE: LiDAR Mapping Initiative

Dear Ms. Benkly:

This letter is in support of Palm Beach County's application for funding in response to the USGS 3D Elevation Program Broad Agency Announcement Solicitation Number G15PS00558.

Obtaining this data will provide a number of benefits, including:

- More accurate data for Flood Insurance Rate Maps
- Storm-water planning
- Hydrological studies
- Environmental assessments
- Infrastructure elevation and inventories for bridges, buildings, etc.
- Accurate data for estimating construction projects
- Updating evacuation zones

We certify that our jurisdiction is located within or overlapping Palm Beach County's jurisdictional boundary.

The County has a well-established geospatial data program and is in the best position to effectively manage the distribution of the large datasets that will result from this program.

Palm Beach County has a sophisticated geospatial data collection and management program that will allow it to facilitate data sharing and partnership coordination, thereby assisting us to provide improved services to our citizens.

Palm Beach County has demonstrated a willingness to share resources with other government agencies (local, regional and state), and in our opinion makes them a well-qualified applicant for funding.

Please feel free to contact me if you have any questions.

Sincerely,

Lori LaVerriere
City Manager

Town of Lake Clarke Shores

Palm Beach County's Premier Lakeside Community Since 1957

August 31, 2015

Christine Benkly, GISP
Countywide GIS Coordinator
Palm Beach County ISS
2300 N. Jog Road
West Palm Beach, FL 33411

Subject:LiDAR Mapping Initiative

Dear Ms. Benkly:

This letter is in support of Palm Beach County's application for funding in response to the USGS 3D Elevation Program Broad Agency Announcement Solicitation Number G15PS00558.

Obtaining this data will provide a number of benefits, including:

- More accurate data for Flood Insurance Rate Maps
- Storm-water planning
- Hydrological studies
- Environmental assessments
- Infrastructure elevation and inventories for bridges, buildings, etc.
- Accurate data for estimating construction projects
- Updating evacuation zones

We certify that our jurisdiction is located within or overlapping Palm Beach County's jurisdictional boundary.

The County has a well-established geospatial data program and is in the best position to effectively manage the distribution of the large datasets that will result from this program. Palm Beach County has a sophisticated geospatial data collection and management program that will allow it to facilitate data sharing and partnership coordination, thereby assisting us to provide improved services to our citizens. Palm Beach County has demonstrated a willingness to share resources with other government agencies (local, regional and state), and in our opinion makes them a well-qualified applicant for funding.

Please feel free to contact me if you have any questions.

Sincerely,

Town of Lake Clarke Shores

Daniel P. Clark, P.E.
Town Administrator

1701 Barbados Rd.• Lake Clarke Shores, FL 33406 • Phone: 561.964.1515 • FAX: 561-964-0685 • Non-Emergency Police 561.964.1114
www.townoflakeclarkeshores.com

Town of Glen Ridge
1501 Glen Road • Glen Ridge, FL 33406
Phone: (561) 697-8868 • Facsimile: (561) 697-1755
E-mail: glenridgetownof@bellsouth.net

September 21, 2015

Christine Benkly, GISP
Countywide GIS Coordinator
Palm Beach County ISS
2300 N. Jog Road
West Palm Beach, FL 33411

RE: LiDAR Mapping Initiative

Dear Ms. Benkly:

This letter is in support of Palm Beach County's application for funding in response to the USGS 3D Elevation Program Broad Agency Announcement Solicitation Number G15PS00558.

Obtaining this data will provide a number of benefits, including:

- More accurate data for Flood Insurance Rate Maps
- Storm-water planning
- Hydrological studies
- Environmental assessments
- Infrastructure elevation and inventories for bridges, buildings, etc.
- Accurate data for estimating construction projects
- Updating evacuation zones

We certify that our jurisdiction is located within or overlapping Palm Beach County's jurisdictional boundary.

The County has a well-established geospatial data program and is in the best position to effectively manage the distribution of the large datasets that will result from this program. Palm Beach County has a sophisticated geospatial data collection and management program that will allow it to facilitate data sharing and partnership coordination, thereby assisting us to provide improved services to our citizens. Palm Beach County has demonstrated a willingness to share resources with other government agencies (local, regional and state), and in our opinion makes them a well-qualified applicant for funding.

Please feel free to contact me if you have any questions.

Sincerely,

Alice McDane

Mayor

8 September, 2015

Juan Tobar, GISP
IT/GIS Manager
Lake Worth Drainage District
13081 Military Trail
Delray Beach, FL 33484

RE: LiDAR Mapping Initiative

Dear Ms. Benkly:

This letter is in support of Palm Beach County's application for funding in response to the USGS 3D Elevation Program Broad Agency Announcement Solicitation Number G15PS00558.

As you are aware the Lake Worth Drainage District manages the water resources for much of southeastern Palm Beach County, providing comprehensive flood control, water conservation and water supply protection to an estimated 700,000 residents, several thousand acres of agricultural land, and maintenance of approximately 500 miles of canals and associated rights-of-way, as well as numerous control structures. Obtaining this data will provide a number of benefits, including:

- More accurate data for Flood Insurance Rate Maps
- Storm-water planning
- Hydrological studies
- Environmental assessments
- Infrastructure elevation and inventories for bridges, buildings, etc.
- Accurate data for estimating construction projects

The County has a well-established geospatial data program and is in the best position to effectively manage the distribution of the large datasets that will result from this program. Palm Beach County has a sophisticated geospatial data collection and management program that will allow it to facilitate data sharing and partnership coordination, thereby assisting us to provide improved services to our citizens. Palm Beach County has demonstrated a willingness to share resources with other government agencies (local, regional and state), and in our opinion makes them a well-qualified applicant for funding.

Please feel free to contact me if you have any questions.

Sincerely,

IT/GIS manager

RESOLUTION NO. R-2015- 1403

RESOLUTION OF THE BOARD OF COUNTY COMMISSIONERS OF PALM BEACH COUNTY, FLORIDA, AUTHORIZING THE GRANTOR TO MANAGE THE CAPTURE OF LIGHT DETECTION AND RANGING (LIDAR) DATA FOR PALM BEACH COUNTY BY THE UNITED STATES GEOLOGICAL SURVEY (USGS) USING VENDORS CERTIFIED THROUGH THEIR 3D ELEVATION PROGRAM (3DEP); AND APPROVE THE ADVANCED FUNDING OF THE GRANT AGREEMENT WITH USGS; AND PROVIDING FOR AN EFFECTIVE DATE.

WHEREAS, Palm Beach County (County) has never done this type of mapping before; and

WHEREAS, the County does not have the expertise in this area; and

WHEREAS, USGS does have the expertise and has demonstrated it by providing LIDAR mapping in other areas of Florida; and

WHEREAS, this would increase the efficiency and adherence to the 3DEP grant requirements; and

WHEREAS, the County is dealing with an agency of the Federal Government; and

WHEREAS, one grant requirement is that the County pay a certain amount up front to USGS for the LIDAR mapping; and

WHEREAS, doing so makes the County more likely to be awarded the grant; and

WHEREAS, this will reduce the County's cost share for obtaining LIDAR data.

NOW, THEREFORE, BE IT RESOLVED BY THE BOARD OF COUNTY COMMISSIONERS OF PALM BEACH COUNTY, FLORIDA, that:

Section 1. Purpose

The purpose of this Resolution is to authorize USGS to capture LIDAR data for the County using their experienced and certified vendors, and allowing the County to make payment to USGS, a Federal Agency in advance of the work being completed as per the 3DEP grant program requirements.

Section 2. Use and Benefit of LIDAR Data

LIDAR data will assist with the FEMA corrected Flood Zones, updating models for modifications to Evacuation Zones, Archaeology studies, Sea Level Rise analysis, Hydrological studies, developing building outlines for change detection and more. It will provide benefit for all the residents of Palm Beach County through the advanced planning and modeling that can be achieved. The LIDAR data is of value to every public entity in the County.

Section 3. Approval of Advanced Funding

As a condition of the USGS's approval of the grant application by the County, advance funding of the County's portion of the LIDAR mapping costs must be provided to USGS, a federal government agency. For this reason the Board of County Commissioners finds that the public interests would be served by providing advance funding to USGS under the grant program.

Section 4. Severability

If any section, sentence, clause, phrase, or word of this Resolution is held invalid or unconstitutional by a Court of competent jurisdiction, then said holding shall in no way affect the validity of the remaining portions of the Resolutions.

Section 5. Effective Date

This Resolution shall take effect upon its adoption by the Board of County Commissioners.

The foregoing Resolution was offered by Commissioner Taylor, who moved its adoption. The motion was seconded by Commissioner Berger, and upon being put to a vote, the vote was as follows:

Commissioner Shelley Vana, Mayor	-	Aye
Commissioner Mary Lou Berger, Vice Mayor	-	Aye
Commissioner Hal R. Valeche	-	Aye
Commissioner Paulette Burdick	-	Aye
Commissioner Steven L. Abrams	-	Aye
Commissioner Melissa McKinlay	-	Aye
Commissioner Pricilla A. Taylor	-	Aye

The Mayor thereupon declared the Resolution duly passed and adopted this 6th day of October, 2015.

PALM BEACH COUNTY, FLORIDA, BY ITS BOARD OF COUNTY COMMISSIONERS

SHARON R. BOCK, CLERK & COMPTROLLER

By: _____
Deputy Clerk

APPROVED AS TO FORM AND LEGAL SUFFICIENCY

By: _____
Assistant County Attorney

United States Department of the Interior

U.S. GEOLOGICAL SURVEY
12201 Sunrise Valley Drive
Reston, Virginia 20192

12 January 2016

Dear Ms. Benkly,

Congratulations, your proposal for *2016 Palm Beach County LIDAR Project* submitted in response to U.S. Geological Survey Broad Agency Announcement for 3D Elevation Program (3DEP), G15PS00558, has been recommended for funding, not to exceed $228,000. As your submission proposes to apply all awarded funds against the USGS Geospatial Product and Service Contract (GPSC), no Cooperative Agreement will be issued. Rather, the USGS will issue a Task Order against the GPSC, as proposed. In order to proceed with issuance of the Task Order, the following steps will be taken:

1. A 3DEP and/or GPSC representative will contact you to begin the Task Order estimation process. During this process, the final funding amount from both your organization and USGS will be determined. The period of performance for the Task Order will also be finalized.
2. Upon completion of the estimation process, your organization will be required to enter into a Joint Funding Agreement (JFA), Inter-Agency Agreement (IA) or other similar agreement as required for each particular type of organization. The full amount of funding must be committed to USGS prior to issuance of the GPSC Task Order. Failure to commit the full amount of funding by the date listed in the JFA will result in the cancellation of the project. Note: The agreement and execution of the Task Order will be based on the contents of the referenced proposal.

This notification is not a letter of commitment. The U.S. Geological Survey is not liable for any costs incurred prior to the signing of an agreement by a Contracting Officer (CO). A CO will hold discussions with your institution before your award start date.

USGS requires acceptance of this letter and the conditions contained herein to proceed. If acceptable, please sign on the line below and return to the Contracting Officer ASAP (as your proposal is requesting a spring 2016 acquisition, **immediate** response is required to support this request) and no later than close of business 01/29/16.

If you require additional information the CO (Ms. Vickie Floyd) can be reached at 703-648-7341 or by e-mail at gs_baa@usgs.gov.

ACCEPTANCE BY AUTHORIZED REPRESENTATIVE OF Palm Beach County Board of County Commissioners

STEVE BORDELON — Printed Name

1-21-2016 — Date

Steve Bordelon — Signature

APPROVED AS TO FORM
AND LEGAL SUFFICIENCY
Paul F.
COUNTY ATTORNEY