

May 5, 2009

Survey Report of LiDAR Ground-Truthing Points

For

USGS Task Order #: G10PD00654
Wayne County, Georgia
USGS Contract #: G10PC00026
PSI NO. 7505-050

Presented to:

US Geological Survey
Box 25046, Denver Federal Center MS204B
Denver, CO 80225

Presented by:



2670 Wilhite Drive
Lexington, KY 40503 859-277-8700

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I. Project Procedure Summary

Photo Science, Inc. was contracted by US Geological Survey to locate Ground-Truthing points to be used for LiDAR elevation adjustment and verification. These points consist of 33 surveyed points for fundamental accuracy assessment throughout the Wayne County project area, 20 of which are blind points not used in our LiDAR calibration solution.

A two-person GPS crew was mobilized to the project area in April 2010, with dual-frequency Leica SR530 units to establish the horizontal and vertical control for the project. Real Time Kinematic (RTK) observations were conducted on each of the 33 surveyed points. The base station control for the RTK survey was a Real Time Network (RTN) consisting of 60 base stations covering the entire state. This network is tied to the National Spatial Reference System (NSRS) by virtue of a number of the points also being NGS CORS stations. There is one base station centrally located in Wayne County and 7 stations surrounding the project area. Maps of the RTN and control point dispersal may be seen on the following pages.

At each check point four digital images of the point were taken, one from each of the four cardinal directions.

No major problems were encountered in the field. The photographs for each LiDAR check point can be found on the GPS Control Survey Field Data Sheets enclosed in the survey report, all coordinates are State Plane Coordinates (GA State Plane US Feet) North American Datum of 1983 (NAD-83/07) and Verticals are North American Vertical Datum of 1988 (NAVD-88).

Observation procedures for this survey were designed to ensure accuracy

meeting the 5 centimeter requirement at the 95% level.

Each point was occupied twice at different times and different satellite constellations. For each occupation a total of 6 measurements were taken. The Leica onboard controllers were set to only allow point measurements if the 3D coordinate quality of the point and network met a 2 cm threshold. At each occupation of the point, three measurements were taken, then the GPS antennae is plunged towards the ground to break the satellite lock. Then the antenna is rotated 180 degrees, rod is re-leveled and the integer ambiguities are resolved again before taking three more readings. The software alerts the operator if any reading is outside of the 2cm tolerance. For this project our highest residual on any point turned out to be .032' or 1cm. See section V. for observation summary. Our GPs RTK procedures are designed to meet or exceed the National Geodetic Survey (NGS) Guideline published in "National Geodetic Survey User Guidelines for Single Base Real-Time GNSS Positioning."

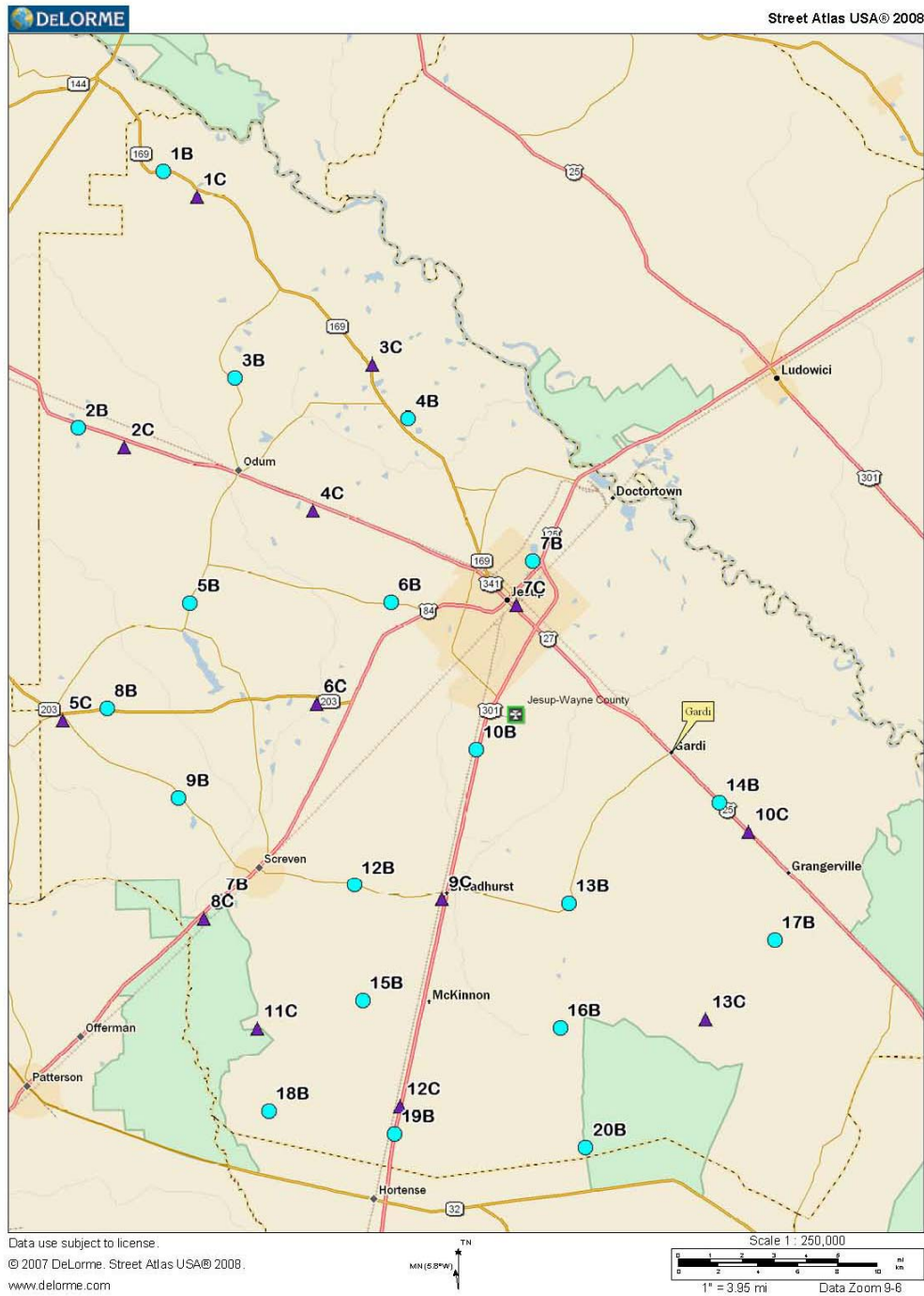
RTK GPS Procedure

1. Set fixed height GPS rod on point, level allow GPS to resolve Integer ambiguities.
2. Once coordinate quality met, take 3 readings
3. Plunge GPS towards ground to break satellite lock
4. set up on point again, rotate antennae 180 degrees from previous set-up
5. Allow unit to resolve Integer ambiguities.
6. take 3 more readings once coordinate quality met

Wayne County Area



III. Control Point Map



IV. Final Coordinate Listing

Point	Easting	Northing	Ortho Height	Description
1B	687459.686	655559.003	181.358	NG GRASS FIELD
1C	692548.571	652229.793	176.867	NG AT PASTURE
2B	673609.253	613433.933	161.707	NG AT EDGE OF FIELD
2C	681690.901	610641.709	157.840	NG AT HWY SHOULDER
3B	698407.331	621160.164	149.613	NG AT EDGE OF DR
3C	722370.442	623375.142	121.554	NG CHURCH PLOT
4B	728331.432	615107.376	138.830	NG PASTURE
4C	712072.042	600323.030	144.258	NG AT INTRSX ROAD
5B	691254.185	583647.639	142.397	NG BTWN DRS
5C	669748.204	565807.898	147.553	GRASS MEDIAN
6B	724068.788	583593.931	147.144	NG IN ROW
6C	713461.420	568278.788	104.537	NE CRNR FIELD
7B	748875.481	590704.779	62.222	GRASS FIELD MOWED
7B-2	695985.477	534881.863	99.374	EDGE TREE LINE
7C	745150.558	585069.907	93.640	NG DIRT DRIVE
8B	678002.795	566411.923	120.989	EDGE DIRT DR
8C	693660.146	533122.737	86.534	MEDIAN
9B	689289.991	552160.764	128.624	CL DIRT RD
9C	732985.258	536334.869	56.272	SHOULDER SOUTH SIDE RD
10B	739007.551	560071.285	96.257	NAIL BY FENCE
10C	783432.258	547058.624	82.097	DIRT DR
11C	702459.355	515425.461	100.067	POWER ESMNT DIST LINE
12B	718760.396	537621.165	67.879	EDGE PLANTED PINES
12C	726537.832	502229.340	62.262	NG IN ROW
13B	754233.329	534716.728	59.634	NG DIRT DRIVE
13C	776664.130	516937.194	77.439	EDGE RD AT FIELD RD
14B	778983.874	551404.691	74.140	ENTER MEDIAN
15B	720025.884	518502.487	60.266	NG DIRT RD
16B	752889.461	514209.685	57.810	PASTURE-VACANT LOT
17B	787895.947	527526.037	80.847	EDGE TREE LINE
18B	704143.625	500107.703	63.187	TREE LINE
19B	725347.361	496753.106	59.265	TREE LINE E SIDE OF RD
20B	756998.102	494489.319	76.790	TREE LINE

V. Network Summary

PROJECT: 7505-050 WAYNE CO GROUND CONTROL

PROJECTION: TRANSVERSE MERCATOR
 SPC ZONE: GEORGIA EAST (1001)
 HRZ DATUM: NAD83 (2007)
 VRT DATUM: NAVD88
 ELLIPSOID: GRS80
 GEOID: GEOID 09
 UNITS: US FOOT

Point Id	Easting	Northing	Orth. height	Annotations	Coordinate quality	Coordinate class	Std. deviation N	Std. deviation E	Std. deviation H
1B	687459.686	655559.003	181.358	NG GRASS FIELD	0.017	WEIGHTED-MEAN	0.004	0.009	0.014
1C	692548.571	652229.793	176.867	NG AT PASTURE	0.009	WEIGHTED-MEAN	0.004	0.002	0.007
2B	673609.253	613433.933	161.707	NG AT EDGE OF FIELD	0.008	WEIGHTED-MEAN	0.005	0.002	0.007
2C	681690.901	610641.709	157.840	NG AT HWY SHOULDER	0.017	WEIGHTED-MEAN	0.008	0.007	0.013
3B	698407.331	621160.164	149.613	NG AT EDGE OF DR	0.015	WEIGHTED-MEAN	0.006	0.001	0.014
3C	722370.442	623375.142	121.554	NG CHURCH PLOT	0.016	WEIGHTED-MEAN	0.006	0.003	0.014
4B	728331.432	615107.376	138.830	NG PASTURE	0.011	WEIGHTED-MEAN	0.004	0.005	0.009
4C	712072.042	600323.030	144.258	NG AT INTRSX RAD	0.017	WEIGHTED-MEAN	0.003	0.005	0.016
5B	691254.185	583647.639	142.397	NG BTWN DRS	0.005	WEIGHTED-MEAN	0.003	0.001	0.004
5C	669748.204	565807.898	147.553	GRASS MEDIAN	0.010	WEIGHTED-MEAN	0.006	0.003	0.008
6B	724068.788	583593.931	147.144	NG IN ROW	0.007	WEIGHTED-MEAN	0.002	0.004	0.005
6C	713461.420	568278.788	104.537	NE CRNR FIELD	0.009	WEIGHTED-MEAN	0.003	0.002	0.009
7B	748875.481	590704.779	62.222	GRASS FIELD MOWED	0.021	WEIGHTED-MEAN	0.003	0.003	0.020
7B-2	695985.477	534881.863	99.374	EDGE TREE LINE	0.015	WEIGHTED-MEAN	0.011	0.005	0.008
7C	745150.558	585069.907	93.640	NG DIRT DRIVE	0.012	WEIGHTED-MEAN	0.008	0.002	0.009
8B	678002.795	566411.923	120.989	EDGE DIRT DR	0.018	WEIGHTED-MEAN	0.003	0.002	0.017
8C	693660.146	533122.737	86.534	MEDIAN	0.013	WEIGHTED-MEAN	0.005	0.005	0.011
9B	689289.991	552160.764	128.624	CL DIRT RD	0.008	WEIGHTED-MEAN	0.004	0.004	0.006
9C	732985.258	536334.869	56.272	SHOULDER SOUTH SIDE RD	0.027	WEIGHTED-MEAN	0.008	0.007	0.025
10B	739007.551	560071.285	96.257	NAIL BY FENCE	0.018	WEIGHTED-MEAN	0.003	0.007	0.017
10C	783432.258	547058.624	82.097	DIRT DR	0.017	WEIGHTED-MEAN	0.015	0.004	0.008
11C	702459.355	515425.461	100.067	POWER ESMNT DIST LINE	0.012	WEIGHTED-MEAN	0.004	0.010	0.005
12B	718760.396	537621.165	67.879	EDGE PLANTED PINES	0.023	WEIGHTED-MEAN	0.003	0.003	0.022
12C	726537.832	502229.340	62.262	NG IN ROW	0.029	WEIGHTED-MEAN	0.016	0.003	0.024
13B	754233.329	534716.728	59.634	NG DIRT DRIVE	0.019	WEIGHTED-MEAN	0.007	0.013	0.011
13C	776664.130	516937.194	77.439	EDGE RD AT FIELD RD	0.010	WEIGHTED-MEAN	0.005	0.005	0.007
14B	778983.874	551404.691	74.140	ENTER MEDIAN	0.022	WEIGHTED-MEAN	0.006	0.010	0.019
15B	720025.884	518502.487	60.266	NG DIRT RD	0.025	WEIGHTED-MEAN	0.007	0.005	0.023
16B	752889.461	514209.685	57.810	PASTURE-VACANT LOT	0.022	WEIGHTED-MEAN	0.007	0.007	0.020
17B	787895.947	527526.037	80.847	EDGE TREE LINE	0.023	WEIGHTED-MEAN	0.007	0.007	0.021
18B	704143.625	500107.703	63.187	TREE LINE	0.018	WEIGHTED-MEAN	0.004	0.005	0.017
19B	725347.361	496753.106	59.265	TREE LINE E SIDE OF RD	0.032	WEIGHTED-MEAN	0.016	0.005	0.027
20B	756998.102	494489.319	76.790	TREE LINE	0.020	WEIGHTED-MEAN	0.003	0.011	0.017

VI. GPS Control Survey Field Data Sheets

2670 Wilhite Drive
Lexington, KY 40503
859-277-8700 voice 859-277-8901 fax

JOB REFERENCE
Wayne Co. GA LiDAR 2010

POINT ID: **1B**
Proj. No.: **7505-050**

STATE: **GA** COUNTY: **WAYNE** QUAD: _____

OPERATOR: **J. BURKE**

STATE PLANE COORDINATES GEORGIA EAST (1001)

RECEIVER MODEL: **LEICA SR530**
RECEIVER S/N: _____

NORTHING: **655559.003** ORTHO HT FT US: **181.358**
EASTING: **687459.686**

SESSION: REAL TIME KINEMATIC DATE: **04/07/10**
DAY OF YEAR: _____

START TIME: **16:00** U.T.C.
END TIME: _____ X LOCAL

ANTENNA HEIGHT (SLANT)
MTRS/FT: _____
MEASURED _____ FIXED HGT. _____

ANTENNA INFO
RADIUS (M): _____
Antenna Serial #: _____
Antenna Type: **AT502** Leica Geodetic L1/L2 Compact/GP

ANTENNA HEIGHT (ARP)
MTRS/FT: **2.000 Meters**
MEASURED _____ X FIXED HGT _____

TOP OF MONUMENT IS: X FLUSH
METERS/FEET: _____ ABOVE GROUND
METERS/FEET: _____ BELOW GROUND

NG GRASS FIELD

AERIAL TARGET: X PHOTO I.D.
PUB. BENCH MARK: _____ NEW CONTROL
PUB. CONTROL: _____ BASE STATION

PHOTO: LOOKING NORTH

PHOTO: LOOKING SOUTH



PHOTO: LOOKING EAST



PHOTO: LOOKING WEST



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JOB REFERENCE
Wayne Co. GA LiDAR 2010

POINT ID: **1C**
Proj. No.: **7505-050**

STATE: **GA** COUNTY: **WAYNE** QUAD: _____

OPERATOR: **J. BURKE**

STATE PLANE COORDINATES GEORGIA EAST (1001)

RECEIVER MODEL: **LEICA SR530**
RECEIVER S/N: _____

NORTHING: **652229.793** ORTHO HT FT US: **176.867**
EASTING: **692548.571**

SESSION: _____ DATE: **04/07/10**
REAL TIME KINEMATIC DAY OF YEAR: _____

START TIME: **16:19** U.T.C.
END TIME: _____ X LOCAL

ANTENNA HEIGHT (SLANT)
MTRS/FT: _____
MEASURED _____ FIXED HGT. _____

ANTENNA INFO
RADIUS (M): _____
Antenna Serial #: _____
Antenna Type: **AT502** Leica Geodetic L1/L2 Compact/GP

ANTENNA HEIGHT (ARP)
MTRS/FT: **2.000 Meters**
MEASURED _____ X FIXED HGT _____

TOP OF MONUMENT IS: X FLUSH
METERS/FEET: _____ ABOVE GROUND
METERS/FEET: _____ BELOW GROUND

NG AT PASTURE

AERIAL TARGET X PHOTO I.D.
PUB. BENCH MARK _____ NEW CONTROL
PUB. CONTROL _____ BASE STATION

PHOTO: LOOKING NORTH

PHOTO: LOOKING SOUTH



PHOTO: LOOKING EAST



PHOTO: LOOKING WEST



2670 Wilhite Drive
Lexington, KY 40503
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JOB REFERENCE
Wayne Co. GA LiDAR 2010

POINT ID: **2B**
Proj. No.: **7505-050**

STATE: **GA** COUNTY: **WAYNE** QUAD:

OPERATOR: **J. BURKE**

STATE PLANE COORDINATES GEORGIA EAST (1001)

RECEIVER MODEL: **LEICA SR530**
RECEIVER S/N:

NORTHING: **613433.933** ORTHO HT FT US: **161.707**
EASTING: **673609.253**

SESSION: DATE: **04/08/10**
REAL TIME KINEMATIC DAY OF YEAR:

START TIME: **11:36** U.T.C.:
END TIME: X LOCAL

ANTENNA HEIGHT (SLANT)
MTRS/FT:
MEASURED: FIXED HGT.:

ANTENNA INFO
RADIUS (M):
Antenna Serial #:
Antenna Type: **AT502** Leica Geodetic L1/L2 Compact/GP

ANTENNA HEIGHT (ARP)
MTRS/FT: **2.000 Meters**
MEASURED: X FIXED HGT:

TOP OF MONUMENT IS: X FLUSH
METERS/FEET: ABOVE GROUND
METERS/FEET: BELOW GROUND

NG AT EDGE OF FIELD

AERIAL TARGET: X PHOTO I.D.
PUB. BENCH MARK: NEW CONTROL
PUB. CONTROL: BASE STATION

PHOTO: LOOKING NORTH

PHOTO: LOOKING SOUTH



PHOTO: LOOKING EAST



PHOTO: LOOKING WEST



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859-277-8700 voice 859-277-8901 fax

JOB REFERENCE
Wayne Co. GA LiDAR 2010

POINT ID: **2C**
Proj. No.: **7505-050**

STATE: **GA** COUNTY: **WAYNE** QUAD: _____

OPERATOR: **J. BURKE**

STATE PLANE COORDINATES GEORGIA EAST (1001)

RECEIVER MODEL: **LEICA SR530**
RECEIVER S/N: _____

NORTHING: **610641.709** ORTHO HT FT US: **157.840**
EASTING: **681690.901**

SESSION: _____ DATE: **04/08/10**
REAL TIME KINEMATIC DAY OF YEAR: _____

START TIME: **11:29** U.T.C.
END TIME: _____ X LOCAL

ANTENNA HEIGHT (SLANT)
MTRS/FT: _____
MEASURED _____ FIXED HGT. _____

ANTENNA INFO
RADIUS (M): _____
Antenna Serial #: _____
Antenna Type: **AT502** Leica Geodetic L1/L2 Compact/GP

ANTENNA HEIGHT (ARP)
MTRS/FT: **2.000 Meters**
MEASURED _____ X FIXED HGT _____

TOP OF MONUMENT IS: X FLUSH
METERS/FEET: _____ ABOVE GROUND
METERS/FEET: _____ BELOW GROUND

NG IN HWY SHOULDER

AERIAL TARGET X PHOTO I.D.
PUB. BENCH MARK _____ NEW CONTROL
PUB. CONTROL _____ BASE STATION

PHOTO: LOOKING NORTH

PHOTO: LOOKING SOUTH



PHOTO: LOOKING EAST



PHOTO: LOOKING WEST





**GPS CONTROL SURVEY
FIELD DATA SHEET**

PAGE:

2670 Wilhite Drive
Lexington, KY 40503
859-277-8700 voice 859-277-8901 fax

JOB REFERENCE
Wayne Co. GA LiDAR 2010

POINT ID: 3B
Proj. No.: 7505-050

STATE GA **COUNTY** WAYNE **QUAD:** _____

OPERATOR J. BURKE

STATE PLANE COORDINATES GEORGIA EAST (1001)

RECEIVER MODEL LEICA SR530
RECEIVER S/N _____

NORTHING 621160.164 **ORTHO HT FT US** 149.613
EASTING 698407.331

SESSION REAL TIME KINEMATIC **DATE:** 04/08/10
DAY OF YEAR _____

START TIME 10:56 **U.T.C.** _____
END TIME _____ **LOCAL** X

ANTENNA HEIGHT (SLANT)

MTRS/FT _____
MEASURED _____ **FIXED HGT.** _____

ANTENNA INFO

RADIUS (M) _____
Antenna Serial # _____
Antenna Type AT502 Leica Geodetic L1/L2 Compact/GP

ANTENNA HEIGHT (ARP)

MTRS/FT 2.000 Meters
MEASURED _____ X **FIXED HGT** _____

TOP OF MONUMENT IS: X FLUSH
METERS/FEET _____ ABOVE GROUND
METERS/FEET _____ BELOW GROUND

NG AT EDGE OF DR

AERIAL TARGET X PHOTO I.D.
PUB. BENCH MARK _____ NEW CONTROL
PUB. CONTROL _____ BASE STATION

PHOTO: LOOKING NORTH

PHOTO: LOOKING SOUTH



PHOTO: LOOKING EAST



PHOTO: LOOKING WEST



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Lexington, KY 40503
859-277-8700 voice 859-277-8901 fax

JOB REFERENCE
Wayne Co. GA LiDAR 2010

POINT ID: 3C
Proj. No.: 7505-050

STATE GA **COUNTY** WAYNE **QUAD:** _____

OPERATOR J. BURKE

STATE PLANE COORDINATES GEORGIA EAST (1001)

RECEIVER MODEL LEICA SR530
RECEIVER S/N _____

NORTHING 623375.142 **ORTHO HT FT US** 121.554
EASTING 722370.442

SESSION REAL TIME KINEMATIC **DATE:** 04/08/10
DAY OF YEAR _____

START TIME 13:03 **U.T.C.** _____
END TIME _____ **LOCAL** X

ANTENNA HEIGHT (SLANT)
MTRS/FT _____
MEASURED _____ FIXED HGT. _____

ANTENNA INFO
RADIUS (M) _____
Antenna Serial # _____
Antenna Type AT502 Leica Geodetic L1/L2 Compact/GP

ANTENNA HEIGHT (ARP)
MTRS/FT 2.000 Meters
MEASURED _____ X FIXED HGT _____

TOP OF MONUMENT IS: X FLUSH
METERS/FEET _____ ABOVE GROUND
METERS/FEET _____ BELOW GROUND

NG CHURCH PLOT

AERIAL TARGET X PHOTO I.D.
PUB. BENCH MARK _____ NEW CONTROL
PUB. CONTROL _____ BASE STATION

PHOTO: LOOKING NORTH

PHOTO: LOOKING SOUTH



PHOTO: LOOKING EAST



PHOTO: LOOKING WEST



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859-277-8700 voice 859-277-8901 fax

JOB REFERENCE
Wayne Co. GA LiDAR 2010

POINT ID: **4B**
Proj. No.: **7505-050**

STATE: **GA** COUNTY: **WAYNE** QUAD: _____

OPERATOR: **J. BURKE**

STATE PLANE COORDINATES GEORGIA EAST (1001)

RECEIVER MODEL: **LEICA SR530**
RECEIVER S/N: _____

NORTHING: **615107.376** ORTHO HT FT US: **138.830**
EASTING: **728331.432**

SESSION: _____ DATE: **04/08/10**
REAL TIME KINEMATIC DAY OF YEAR: _____

START TIME: **09:18** U.T.C.
END TIME: _____ X LOCAL

ANTENNA HEIGHT (SLANT)
MTRS/FT: _____
MEASURED _____ FIXED HGT. _____

ANTENNA INFO
RADIUS (M): _____
Antenna Serial #: _____
Antenna Type: **AT502** Leica Geodetic L1/L2 Compact/GP

ANTENNA HEIGHT (ARP)
MTRS/FT: **2.000 Meters**
MEASURED _____ X FIXED HGT _____

TOP OF MONUMENT IS: X FLUSH
METERS/FEET: _____ ABOVE GROUND
METERS/FEET: _____ BELOW GROUND

NG PASTURE

AERIAL TARGET: X PHOTO I.D.
PUB. BENCH MARK: _____ NEW CONTROL
PUB. CONTROL: _____ BASE STATION

PHOTO: LOOKING NORTH

PHOTO: LOOKING SOUTH



PHOTO: LOOKING EAST



PHOTO: LOOKING WEST





**GPS CONTROL SURVEY
FIELD DATA SHEET**

PAGE:

JOB REFERENCE
Wayne Co. GA LiDAR 2010

POINT ID: **4C**
Proj. No.: **7505-050**

2670 Wilhite Drive
Lexington, KY 40503
859-277-8700 voice 859-277-8901 fax

STATE	GA	COUNTY	WAYNE	QUAD:	
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OPERATOR	J. BURKE	STATE PLANE COORDINATES GEORGIA EAST (1001)		
RECEIVER MODEL	LEICA SR530	NORTHING	600323.03	ORTHO HT FT US
RECEIVER S/N		EASTING	712072.042	144.258

SESSION	DATE:	04/07/10	START TIME	11:46		U.T.C.
REAL TIME KINEMATIC	DAY OF YEAR		END TIME		X	LOCAL

ANTENNA HEIGHT (SLANT)			
MTRS/FT		MEASURED	FIXED HGT.

ANTENNA HEIGHT (ARP)			
MTRS/FT	2.000 Meters	MEASURED	X FIXED HGT

ANTENNA INFO			
RADIUS (M)			
Antenna Serial #			
Antenna Type	AT502	Leica Geodetic L1/L2 Compact/GP	

TOP OF MONUMENT IS:	X	FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

NG AT INTRSX RAD

AERIAL TARGET	X	PHOTO I.D.
PUB. BENCH MARK		NEW CONTROL
PUB. CONTROL		BASE STATION

PHOTO: LOOKING NORTH



PHOTO: LOOKING SOUTH



PHOTO: LOOKING EAST



PHOTO: LOOKING WEST



JOB REFERENCE
Wayne Co. GA LiDAR 2010

POINT ID: 5B
Proj. No.: 7505-050

2670 Wilhite Drive
Lexington, KY 40503
859-277-8700 voice 859-277-8901 fax

STATE GA **COUNTY** WAYNE **QUAD:** _____

OPERATOR J. BURKE **STATE PLANE COORDINATES GEORGIA EAST (1001)**

NORTHING	583647.639	ORTHO HT FT US
EASTING	691254.185	142.397

RECEIVER MODEL LEICA SR530
RECEIVER S/N _____

SESSION	DATE: 04/07/10	START TIME 11:27	U.T.C.
REAL TIME KINEMATIC	DAY OF YEAR _____	END TIME _____	X LOCAL

ANTENNA HEIGHT (SLANT)

MTRS/FT	_____
MEASURED	FIXED HGT.

ANTENNA HEIGHT (ARP)

MTRS/FT	2.000 Meters
MEASURED	X FIXED HGT

ANTENNA INFO

RADIUS (M)	_____
Antenna Serial #	_____
Antenna Type	AT502 Leica Geodetic L1/L2 Compact/GP

TOP OF MONUMENT IS: X FLUSH

METERS/FEET	_____	ABOVE GROUND
METERS/FEET	_____	BELOW GROUND

NG BTWN DRS

AERIAL TARGET	X	PHOTO I.D.
PUB. BENCH MARK		NEW CONTROL
PUB. CONTROL		BASE STATION

PHOTO: LOOKING NORTH



PHOTO: LOOKING SOUTH



PHOTO: LOOKING EAST



PHOTO: LOOKING WEST



JOB REFERENCE
Wayne Co. GA LiDAR 2010

POINT ID: **5C**
Proj. No.: **7505-050**

2670 Wilhite Drive
Lexington, KY 40503
859-277-8700 voice 859-277-8901 fax

STATE **GA** COUNTY **WAYNE** QUAD:

OPERATOR **J. BURKE**

STATE PLANE COORDINATES GEORGIA EAST (1001)

RECEIVER MODEL **LEICA SR530**
RECEIVER S/N

NORTHING **565807.898** ORTHO HT FT US
EASTING **669748.204** **147.553**

SESSION REAL TIME KINEMATIC DATE: **04/08/10**
DAY OF YEAR

START TIME **12:06** U.T.C.
END TIME LOCAL **X**

ANTENNA HEIGHT (SLANT)
MTRS/FT
MEASURED FIXED HGT.

ANTENNA INFO
RADIUS (M)
Antenna Serial #
Antenna Type **AT502** Leica Geodetic L1/L2 Compact/GP

ANTENNA HEIGHT (ARP)
MTRS/FT **2.000 Meters**
MEASURED **X** FIXED HGT

TOP OF MONUMENT IS: **X** FLUSH
METERS/FEET ABOVE GROUND
METERS/FEET BELOW GROUND

GRASS MEDIAN

AERIAL TARGET **X** PHOTO I.D.
PUB. BENCH MARK NEW CONTROL
PUB. CONTROL BASE STATION

PHOTO: LOOKING NORTH

PHOTO: LOOKING SOUTH



PHOTO: LOOKING EAST



PHOTO: LOOKING WEST





**GPS CONTROL SURVEY
FIELD DATA SHEET**

PAGE:

JOB REFERENCE
Wayne Co. GA LiDAR 2010

POINT ID: **6B**
Proj. No.: **7505-050**

2670 Wilhite Drive
Lexington, KY 40503
859-277-8700 voice 859-277-8901 fax

STATE	GA	COUNTY	WAYNE	QUAD:	
-------	-----------	--------	--------------	-------	--

OPERATOR	J. BURKE	STATE PLANE COORDINATES GEORGIA EAST (1001)		
RECEIVER MODEL	LEICA SR530	NORTHING	583593.931	ORTHO HT FT US
RECEIVER S/N		EASTING	724068.788	147.144

SESSION		DATE:	04/07/10	START TIME	09:01		U.T.C.
REAL TIME KINEMATIC		DAY OF YEAR		END TIME		X	LOCAL

ANTENNA HEIGHT (SLANT)			
MTRS/FT		MEASURED	FIXED HGT.

ANTENNA INFO			
RADIUS (M)			
Antenna Serial #			
Antenna Type	AT502	Leica Geodetic L1/L2 Compact/GP	

ANTENNA HEIGHT (ARP)			
MTRS/FT	2.000 Meters	MEASURED	X FIXED HGT

TOP OF MONUMENT IS:	X	FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

NG IN ROW

AERIAL TARGET	X	PHOTO I.D.
PUB. BENCH MARK		NEW CONTROL
PUB. CONTROL		BASE STATION

PHOTO: LOOKING NORTH

PHOTO: LOOKING SOUTH



PHOTO: LOOKING EAST



PHOTO: LOOKING WEST





**GPS CONTROL SURVEY
FIELD DATA SHEET**

PAGE:

JOB REFERENCE
Wayne Co. GA LiDAR 2010

POINT ID: **6C**
Proj. No.: **7505-050**

2670 Wilhite Drive
Lexington, KY 40503
859-277-8700 voice 859-277-8901 fax

STATE **GA** COUNTY **WAYNE** QUAD: _____

OPERATOR **J. BURKE**

STATE PLANE COORDINATES GEORGIA EAST (1001)

RECEIVER MODEL **LEICA SR530**
RECEIVER S/N _____

NORTHING **568278.788** ORTHO HT FT US **104.537**
EASTING **713461.42**

SESSION _____ DATE: **04/07/10**
REAL TIME KINEMATIC _____ DAY OF YEAR _____

START TIME **09:19** U.T.C. _____
END TIME _____ X LOCAL

ANTENNA HEIGHT (SLANT)

MTRS/FT _____
MEASURED _____ FIXED HGT. _____

ANTENNA INFO

RADIUS (M) _____
Antenna Serial # _____
Antenna Type **A7502** Leica Geodetic L1/L2 Compact/GP

ANTENNA HEIGHT (ARP)

MTRS/FT **2.000 Meters**
MEASURED _____ X FIXED HGT _____

TOP OF MONUMENT IS: X FLUSH
METERS/FEET _____ ABOVE GROUND
METERS/FEET _____ BELOW GROUND

NE CRNR FIELD

AERIAL TARGET X PHOTO I.D.
PUB. BENCH MARK _____ NEW CONTROL
PUB. CONTROL _____ BASE STATION

PHOTO: LOOKING NORTH

PHOTO: LOOKING SOUTH



PHOTO: LOOKING EAST



PHOTO: LOOKING WEST



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JOB REFERENCE
Wayne Co. GA LiDAR 2010

POINT ID: **7B**
Proj. No.: **7505-050**

STATE: **GA** COUNTY: **WAYNE** QUAD: _____

OPERATOR: **J. BURKE**

STATE PLANE COORDINATES GEORGIA EAST (1001)

RECEIVER MODEL: **LEICA SR530**
RECEIVER S/N: _____

NORTHING: **590704.779** ORTHO HT FT US: **62.222**
EASTING: **748875.481**

SESSION: _____ DATE: **04/07/10**
REAL TIME KINEMATIC DAY OF YEAR: _____

START TIME: **08:39** U.T.C.
END TIME: _____ X LOCAL

ANTENNA HEIGHT (SLANT)
MTRS/FT: _____
MEASURED _____ FIXED HGT. _____

ANTENNA INFO
RADIUS (M): _____
Antenna Serial #: _____
Antenna Type: **A7502** Leica Geodetic L1/L2 Compact/GP

ANTENNA HEIGHT (ARP)
MTRS/FT: **2.000 Meters**
MEASURED _____ X FIXED HGT _____

TOP OF MONUMENT IS: X FLUSH
METERS/FEET: _____ ABOVE GROUND
METERS/FEET: _____ BELOW GROUND

GRASS FIELD MOWED

AERIAL TARGET: X PHOTO I.D.
PUB. BENCH MARK: _____ NEW CONTROL
PUB. CONTROL: _____ BASE STATION

PHOTO: LOOKING NORTH

PHOTO: LOOKING SOUTH



PHOTO: LOOKING EAST



PHOTO: LOOKING WEST



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JOB REFERENCE
Wayne Co. GA LiDAR 2010

POINT ID: **7B-2**
Proj. No.: **7505-050**

STATE **GA** COUNTY **WAYNE** QUAD: _____

OPERATOR **P. DEATER**

STATE PLANE COORDINATES GEORGIA EAST (1001)

RECEIVER MODEL **LEICA SR530**
RECEIVER S/N _____

NORTHING **534881.863** ORTHO HT FT US **99.374**
EASTING **695985.477**

SESSION _____ DATE: **04/08/10**
REAL TIME KINEMATIC DAY OF YEAR _____

START TIME **10:32** U.T.C. _____
END TIME _____ X LOCAL

ANTENNA HEIGHT (SLANT)
MTRS/FT _____
MEASURED _____ FIXED HGT. _____

ANTENNA INFO
RADIUS (M) _____
Antenna Serial # _____
Antenna Type **AT502** Leica Geodetic L1/L2 Compact/GP

ANTENNA HEIGHT (ARP)
MTRS/FT **2.000 Meters**
MEASURED _____ X FIXED HGT _____

TOP OF MONUMENT IS: X FLUSH
METERS/FEET _____ ABOVE GROUND
METERS/FEET _____ BELOW GROUND

EDGE TREE LINE

AERIAL TARGET X PHOTO I.D.
PUB. BENCH MARK _____ NEW CONTROL
PUB. CONTROL _____ BASE STATION

PHOTO: LOOKING NORTH

PHOTO: LOOKING SOUTH



PHOTO: LOOKING EAST



PHOTO: LOOKING WEST



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JOB REFERENCE
Wayne Co. GA LiDAR 2010

POINT ID: **7C**
Proj. No.: **7505-050**

STATE: **GA** COUNTY: **WAYNE** QUAD: _____

OPERATOR: **J. BURKE**

STATE PLANE COORDINATES GEORGIA EAST (1001)

RECEIVER MODEL: **LEICA SR530**
RECEIVER S/N: _____

NORTHING: **585069.907** ORTHO HT FT US: **93.640**
EASTING: **745150.558**

SESSION: _____ DATE: **04/07/10**
REAL TIME KINEMATIC DAY OF YEAR: _____

START TIME: **08:11** U.T.C.
END TIME: _____ X LOCAL

ANTENNA HEIGHT (SLANT)
MTRS/FT: _____
MEASURED _____ FIXED HGT. _____

ANTENNA INFO
RADIUS (M): _____
Antenna Serial #: _____
Antenna Type: **A7502** Leica Geodetic L1/L2 Compact/GP

ANTENNA HEIGHT (ARP)
MTRS/FT: **2.000 Meters**
MEASURED _____ X FIXED HGT _____

TOP OF MONUMENT IS: X FLUSH
METERS/FEET: _____ ABOVE GROUND
METERS/FEET: _____ BELOW GROUND

NG DIRT DRIVE

AERIAL TARGET: X PHOTO I.D.
PUB. BENCH MARK: _____ NEW CONTROL
PUB. CONTROL: _____ BASE STATION

PHOTO: LOOKING NORTH

PHOTO: LOOKING SOUTH



PHOTO: LOOKING EAST



PHOTO: LOOKING WEST



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859-277-8700 voice 859-277-8901 fax

JOB REFERENCE
Wayne Co. GA LiDAR 2010

POINT ID: 8B
Proj. No.: 7505-050

STATE GA **COUNTY** WAYNE **QUAD:** _____

OPERATOR J. BURKE

STATE PLANE COORDINATES GEORGIA EAST (1001)

RECEIVER MODEL LEICA SR530
RECEIVER S/N _____

NORTHING 566411.923 **ORTHO HT FT US** 120.989
EASTING 678002.795

SESSION REAL TIME KINEMATIC **DATE:** 04/07/10
DAY OF YEAR _____

START TIME 11:01 **U.T.C.** _____
END TIME _____ **LOCAL** X

ANTENNA HEIGHT (SLANT)

MTRS/FT _____
MEASURED _____ **FIXED HGT.** _____

ANTENNA INFO

RADIUS (M) _____
Antenna Serial # _____
Antenna Type AT502 Leica Geodetic L1/L2 Compact/GP

ANTENNA HEIGHT (ARP)

MTRS/FT 2.000 Meters
MEASURED _____ **X** **FIXED HGT** _____

TOP OF MONUMENT IS: X FLUSH
METERS/FEET _____ **ABOVE GROUND**
METERS/FEET _____ **BELOW GROUND**

EDGE DIRT DR

AERIAL TARGET X **PHOTO I.D.** _____
PUB. BENCH MARK _____ **NEW CONTROL** _____
PUB. CONTROL _____ **BASE STATION** _____

PHOTO: LOOKING NORTH

PHOTO: LOOKING SOUTH



PHOTO: LOOKING EAST



PHOTO: LOOKING WEST





**GPS CONTROL SURVEY
FIELD DATA SHEET**

PAGE:

JOB REFERENCE
Wayne Co. GA LiDAR 2010

POINT ID: **8C**
Proj. No.: **7505-050**

2670 Wilhite Drive
Lexington, KY 40503
859-277-8700 voice 859-277-8901 fax

STATE: **GA** COUNTY: **WAYNE** QUAD: _____

OPERATOR: **P. DEATER**

STATE PLANE COORDINATES GEORGIA EAST (1001)

RECEIVER MODEL: **LEICA SR530**
RECEIVER S/N: _____

NORTHING: **533122.737** ORTHO HT FT US: **86.534**
EASTING: **693660.146**

SESSION: _____ DATE: **04/08/10**
REAL TIME KINEMATIC DAY OF YEAR: _____

START TIME: **10:41** U.T.C.: _____
END TIME: _____ X LOCAL

ANTENNA HEIGHT (SLANT)
MTRS/FT: _____
MEASURED _____ FIXED HGT. _____

ANTENNA INFO
RADIUS (M): _____
Antenna Serial #: _____
Antenna Type: **AT502** Leica Geodetic L1/L2 Compact/GP

ANTENNA HEIGHT (ARP)
MTRS/FT: **2.000 Meters**
MEASURED _____ X FIXED HGT _____

TOP OF MONUMENT IS: X FLUSH
METERS/FEET: _____ ABOVE GROUND
METERS/FEET: _____ BELOW GROUND

MEDIAN

AERIAL TARGET: X PHOTO I.D.
PUB. BENCH MARK: _____ NEW CONTROL
PUB. CONTROL: _____ BASE STATION

PHOTO: LOOKING NORTH

PHOTO: LOOKING SOUTH



PHOTO: LOOKING EAST



PHOTO: LOOKING WEST



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JOB REFERENCE
Wayne Co. GA LiDAR 2010

POINT ID: **9B**
Proj. No.: **7505-050**

STATE: **GA** COUNTY: **WAYNE** QUAD: _____

OPERATOR: **J. BURKE**

STATE PLANE COORDINATES GEORGIA EAST (1001)

RECEIVER MODEL: **LEICA SR530**
RECEIVER S/N: _____

NORTHING: **552160.764** ORTHO HT FT US: **128.624**
EASTING: **689289.991**

SESSION: _____ DATE: **04/08/10**
REAL TIME KINEMATIC DAY OF YEAR: _____

START TIME: **12:23** U.T.C.
END TIME: _____ X LOCAL

ANTENNA HEIGHT (SLANT)
MTRS/FT: _____
MEASURED _____ FIXED HGT. _____

ANTENNA INFO
RADIUS (M): _____
Antenna Serial #: _____
Antenna Type: **A7502** Leica Geodetic L1/L2 Compact/GP

ANTENNA HEIGHT (ARP)
MTRS/FT: **2.000 Meters**
MEASURED _____ X FIXED HGT _____

TOP OF MONUMENT IS: X FLUSH
METERS/FEET: _____ ABOVE GROUND
METERS/FEET: _____ BELOW GROUND

CL DIRT RD

AERIAL TARGET X PHOTO I.D.
PUB. BENCH MARK _____ NEW CONTROL
PUB. CONTROL _____ BASE STATION

PHOTO: LOOKING NORTH

PHOTO: LOOKING SOUTH



PHOTO: LOOKING EAST



PHOTO: LOOKING WEST



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JOB REFERENCE
Wayne Co. GA LiDAR 2010

POINT ID: **9C**
Proj. No.: **7505-050**

STATE: **GA** COUNTY: **WAYNE** QUAD: _____

OPERATOR: **P. DEATER**

STATE PLANE COORDINATES GEORGIA EAST (1001)

RECEIVER MODEL: **LEICA SR530**
RECEIVER S/N: _____

NORTHING: **536334.869** ORTHO HT FT US: **56.272**
EASTING: **732985.258**

SESSION: _____ DATE: **04/07/10**
REAL TIME KINEMATIC DAY OF YEAR: _____

START TIME: **09:52** U.T.C.: _____
END TIME: _____ X LOCAL

ANTENNA HEIGHT (SLANT)
MTRS/FT: _____
MEASURED _____ FIXED HGT. _____

ANTENNA INFO
RADIUS (M): _____
Antenna Serial #: _____
Antenna Type: **AT502** Leica Geodetic L1/L2 Compact/GP

ANTENNA HEIGHT (ARP)
MTRS/FT: **2.000 Meters**
MEASURED _____ X FIXED HGT _____

TOP OF MONUMENT IS: X FLUSH
METERS/FEET: _____ ABOVE GROUND
METERS/FEET: _____ BELOW GROUND

SHOULDER SOUTH SIDE RD

AERIAL TARGET: X PHOTO I.D.
PUB. BENCH MARK: _____ NEW CONTROL
PUB. CONTROL: _____ BASE STATION

PHOTO: LOOKING NORTH

PHOTO: LOOKING SOUTH



PHOTO: LOOKING EAST



PHOTO: LOOKING WEST





**GPS CONTROL SURVEY
FIELD DATA SHEET**

PAGE:

JOB REFERENCE
Wayne Co. GA LiDAR 2010

POINT ID: 10B
Proj. No.: 7505-050

2670 Wilhite Drive
Lexington, KY 40503
859-277-8700 voice 859-277-8901 fax

STATE GA **COUNTY** WAYNE **QUAD:** _____

OPERATOR P. DEATER

STATE PLANE COORDINATES GEORGIA EAST (1001)

RECEIVER MODEL LEICA SR530
RECEIVER S/N _____

NORTHING 560071.285 **ORTHO HT FT US** 96.257
EASTING 739007.551

SESSION REAL TIME KINEMATIC **DATE:** 04/07/10
DAY OF YEAR _____

START TIME 08:59 **U.T.C.** _____
END TIME _____ **LOCAL** X

ANTENNA HEIGHT (SLANT)

MTRS/FT _____
MEASURED _____ **FIXED HGT.** _____

ANTENNA INFO

RADIUS (M) _____
Antenna Serial # _____
Antenna Type AT502 Leica Geodetic L1/L2 Compact/GP

ANTENNA HEIGHT (ARP)

MTRS/FT 2.000 Meters
MEASURED _____ **X** **FIXED HGT** _____

TOP OF MONUMENT IS: X FLUSH
METERS/FEET _____ **ABOVE GROUND**
METERS/FEET _____ **BELOW GROUND**

NAIL BY FENCE

AERIAL TARGET X **PHOTO I.D.** _____
PUB. BENCH MARK _____ **NEW CONTROL** _____
PUB. CONTROL _____ **BASE STATION** _____

PHOTO: LOOKING NORTH

PHOTO: LOOKING SOUTH



PHOTO: LOOKING EAST



PHOTO: LOOKING WEST



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JOB REFERENCE
Wayne Co. GA LiDAR 2010

POINT ID: **10C**
Proj. No.: **7505-050**

STATE: **GA** COUNTY: **WAYNE** QUAD:

OPERATOR: **P. DEATER**

STATE PLANE COORDINATES GEORGIA EAST (1001)

RECEIVER MODEL: **LEICA SR530**
RECEIVER S/N:

NORTHING: **547058.624** ORTHO HT FT US: **82.097**
EASTING: **783432.258**

SESSION: DATE: **04/07/10**
REAL TIME KINEMATIC DAY OF YEAR:

START TIME: **08:15** U.T.C.:
END TIME: X LOCAL

ANTENNA HEIGHT (SLANT)
MTRS/FT:
MEASURED FIXED HGT.

ANTENNA INFO
RADIUS (M):
Antenna Serial #:
Antenna Type: **AT502** Leica Geodetic L1/L2 Compact/GP

ANTENNA HEIGHT (ARP)
MTRS/FT: **2.000 Meters**
MEASURED X FIXED HGT

TOP OF MONUMENT IS: X FLUSH
METERS/FEET ABOVE GROUND
METERS/FEET BELOW GROUND

DIRT DR

AERIAL TARGET X PHOTO I.D.
PUB. BENCH MARK NEW CONTROL
PUB. CONTROL BASE STATION

PHOTO: LOOKING NORTH

PHOTO: LOOKING SOUTH



PHOTO: LOOKING EAST



PHOTO: LOOKING WEST



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JOB REFERENCE
Wayne Co. GA LiDAR 2010

POINT ID: **11C**
Proj. No.: **7505-050**

STATE: **GA** COUNTY: **WAYNE** QUAD: _____

OPERATOR: **P. DEATER**

STATE PLANE COORDINATES GEORGIA EAST (1001)

NORTHING	515425.461	ORTHO HT FT US
EASTING	702459.355	100.067

RECEIVER MODEL: **LEICA SR530**
RECEIVER S/N: _____

SESSION: REAL TIME KINEMATIC	DATE: 04/08/10 DAY OF YEAR: _____	START TIME: 10:58 END TIME: _____	U.T.C. <input checked="" type="checkbox"/> LOCAL
------------------------------	---	---	---

ANTENNA HEIGHT (SLANT)

MTRS/FT	MEASURED	FIXED HGT.
---------	----------	------------

ANTENNA INFO

RADIUS (M)		
Antenna Serial #		
Antenna Type	A7502	Leica Geodetic L1/L2 Compact/GP

ANTENNA HEIGHT (ARP)

MTRS/FT	2.000 Meters	MEASURED	<input checked="" type="checkbox"/> FIXED HGT
---------	---------------------	----------	---

TOP OF MONUMENT IS:

<input checked="" type="checkbox"/> FLUSH	<input type="checkbox"/> ABOVE GROUND	<input type="checkbox"/> BELOW GROUND
---	---------------------------------------	---------------------------------------

POWER ESMNT DIST LINE

AERIAL TARGET	<input checked="" type="checkbox"/> PHOTO I.D.
PUB. BENCH MARK	<input type="checkbox"/> NEW CONTROL
PUB. CONTROL	<input type="checkbox"/> BASE STATION

PHOTO: LOOKING NORTH



PHOTO: LOOKING SOUTH



PHOTO: LOOKING EAST



PHOTO: LOOKING WEST





**GPS CONTROL SURVEY
FIELD DATA SHEET**

PAGE:

2670 Wilhite Drive
Lexington, KY 40503
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JOB REFERENCE
Wayne Co. GA LiDAR 2010

POINT ID: **12B**
Proj. No.: **7505-050**

STATE **GA**

COUNTY **WAYNE**

QUAD:

OPERATOR **P. DEATER**

STATE PLANE COORDINATES GEORGIA EAST (1001)

RECEIVER MODEL **LEICA SR530**
RECEIVER S/N

NORTHING **537621.165** ORTHO HT FT US **67.879**
EASTING **718760.396**

SESSION
REAL TIME KINEMATIC

DATE: **04/07/10**
DAY OF YEAR

START TIME **09:21**
END TIME

 U.T.C.
X LOCAL

ANTENNA HEIGHT (SLANT)
MTRS/FT
MEASURED FIXED HGT.

ANTENNA INFO
RADIUS (M)
Antenna Serial #
Antenna Type **AT502** Leica Geodetic L1/L2 Compact/GP

ANTENNA HEIGHT (ARP)
MTRS/FT **2.000 Meters**
MEASURED **X** FIXED HGT

TOP OF MONUMENT IS: **X** FLUSH
METERS/FEET ABOVE GROUND
METERS/FEET BELOW GROUND

EDGE PLANTED PINES

AERIAL TARGET **X** PHOTO I.D.
PUB. BENCH MARK NEW CONTROL
PUB. CONTROL BASE STATION

PHOTO: LOOKING NORTH

PHOTO: LOOKING SOUTH



PHOTO: LOOKING EAST



PHOTO: LOOKING WEST



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JOB REFERENCE
Wayne Co. GA LiDAR 2010

POINT ID: **12C**
Proj. No.: **7505-050**

STATE: **GA** COUNTY: **WAYNE** QUAD: _____

OPERATOR: **P. DEATER**

STATE PLANE COORDINATES GEORGIA EAST (1001)

RECEIVER MODEL: **LEICA SR530**
RECEIVER S/N: _____

NORTHING: **502229.340** ORTHO HT FT US: **62.262**
EASTING: **726537.832**

SESSION: _____ DATE: **04/08/10**
REAL TIME KINEMATIC DAY OF YEAR: _____

START TIME: **12:20** U.T.C.
END TIME: _____ X LOCAL

ANTENNA HEIGHT (SLANT)
MTRS/FT: _____
MEASURED _____ FIXED HGT. _____

ANTENNA INFO
RADIUS (M): _____
Antenna Serial #: _____
Antenna Type: **AT502** Leica Geodetic L1/L2 Compact/GP

ANTENNA HEIGHT (ARP)
MTRS/FT: **2.000 Meters**
MEASURED _____ X FIXED HGT _____

TOP OF MONUMENT IS: X FLUSH
METERS/FEET: _____ ABOVE GROUND
METERS/FEET: _____ BELOW GROUND

NG IN ROW

AERIAL TARGET X PHOTO I.D.
PUB. BENCH MARK _____ NEW CONTROL
PUB. CONTROL _____ BASE STATION

PHOTO: LOOKING NORTH

PHOTO: LOOKING SOUTH



PHOTO: LOOKING EAST



PHOTO: LOOKING WEST



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859-277-8700 voice 859-277-8901 fax

JOB REFERENCE
Wayne Co. GA LIDAR 2010

POINT ID: **13B**
Proj. No.: **7505-050**

STATE **GA** COUNTY **WAYNE** QUAD:

OPERATOR **P. DEATER**

STATE PLANE COORDINATES GEORGIA EAST (1001)

RECEIVER MODEL **LEICA SR530**
RECEIVER S/N

NORTHING **534716.728** ORTHO HT FT US **59.634**
EASTING **754233.329**

SESSION DATE: **7/201010:17:00 A**
REAL TIME KINEMATIC DAY OF YEAR

START TIME **10:17** U.T.C.
END TIME X LOCAL

ANTENNA HEIGHT (SLANT)
MTRS/FT
MEASURED FIXED HGT.

ANTENNA INFO
RADIUS (M)
Antenna Serial #
Antenna Type **AT502** Leica Geodetic L1/L2 Compact/GP

ANTENNA HEIGHT (ARP)
MTRS/FT **2.000 Meters**
MEASURED X FIXED HGT

TOP OF MONUMENT IS: X FLUSH
METERS/FEET ABOVE GROUND
METERS/FEET BELOW GROUND

NG DIRT DRIVE

AERIAL TARGET X PHOTO I.D.
PUB. BENCH MARK NEW CONTROL
PUB. CONTROL BASE STATION

PHOTO: LOOKING NORTH

PHOTO: LOOKING SOUTH



PHOTO: LOOKING EAST



PHOTO: LOOKING WEST





**GPS CONTROL SURVEY
FIELD DATA SHEET**

PAGE:

JOB REFERENCE
Wayne Co. GA LIDAR 2010

POINT ID: **13C**
Proj. No.: **7505-050**

2670 Wilhite Drive
Lexington, KY 40503
859-277-8700 voice 859-277-8901 fax

STATE: **GA** COUNTY: **WAYNE** QUAD:

OPERATOR: **P. DEATER**

STATE PLANE COORDINATES GEORGIA EAST (1001)

NORTHING: **516937.194** ORTHO HT FT US: **77.439**
EASTING: **776664.130**

RECEIVER MODEL: **LEICA SR530**
RECEIVER S/N:

SESSION: REAL TIME KINEMATIC DATE: **04/07/10** START TIME: **11:10** U.T.C.:
DAY OF YEAR: END TIME: X LOCAL

ANTENNA HEIGHT (SLANT)
MTRS/FT: MEASURED: FIXED HGT.:

ANTENNA INFO
RADIUS (M): Antenna Serial #: Antenna Type: **AT502** Leica Geodetic L1/L2 Compact/GP

ANTENNA HEIGHT (ARP)
MTRS/FT: **2.000 Meters** MEASURED: X FIXED HGT:

TOP OF MONUMENT IS: X FLUSH
METERS/FEET: ABOVE GROUND
METERS/FEET: BELOW GROUND

EDGE RD AT FIELD RD

AERIAL TARGET: X PHOTO I.D.
PUB. BENCH MARK: NEW CONTROL
PUB. CONTROL: BASE STATION

PHOTO: LOOKING NORTH

PHOTO: LOOKING SOUTH



PHOTO: LOOKING EAST



PHOTO: LOOKING WEST





**GPS CONTROL SURVEY
FIELD DATA SHEET**

PAGE:

JOB REFERENCE
Wayne Co. GA LIDAR 2010

POINT ID: **14B**
Proj. No.: **7505-050**

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Lexington, KY 40503
859-277-8700 voice 859-277-8901 fax

STATE **GA** COUNTY **WAYNE** QUAD: _____

OPERATOR **P. DEATER**

STATE PLANE COORDINATES GEORGIA EAST (1001)

NORTHING **551404.691** ORTHO HT FT US
EASTING **778983.874** **74.140**

RECEIVER MODEL **LEICA SR530**
RECEIVER S/N _____

SESSION _____ DATE: **04/07/10** START TIME **08:35** U.T.C.
REAL TIME KINEMATIC DAY OF YEAR _____ END TIME _____ X LOCAL

ANTENNA HEIGHT (SLANT)
MTRS/FT _____
MEASURED _____ FIXED HGT. _____

ANTENNA INFO
RADIUS (M) _____
Antenna Serial # _____
Antenna Type **A7502** Leica Geodetic L1/L2 Compact/GP

ANTENNA HEIGHT (ARP)
MTRS/FT **2.000 Meters**
MEASURED _____ X FIXED HGT _____

TOP OF MONUMENT IS: X FLUSH
METERS/FEET _____ ABOVE GROUND
METERS/FEET _____ BELOW GROUND

ENTER MEDIAN

AERIAL TARGET X PHOTO I.D.
PUB. BENCH MARK _____ NEW CONTROL
PUB. CONTROL _____ BASE STATION

PHOTO: LOOKING NORTH

PHOTO: LOOKING SOUTH



PHOTO: LOOKING EAST



PHOTO: LOOKING WEST





**GPS CONTROL SURVEY
FIELD DATA SHEET**

PAGE:

JOB REFERENCE
Wayne Co. GA LiDAR 2010

POINT ID: **15B**
Proj. No.: **7505-050**

2670 Wilhite Drive
Lexington, KY 40503
859-277-8700 voice 859-277-8901 fax

STATE **GA** COUNTY **WAYNE** QUAD:

OPERATOR **P. DEATER** STATE PLANE COORDINATES GEORGIA EAST (1001)

NORTHING	518502.487	ORTHO HT FT US
EASTING	720025.884	60.266

RECEIVER MODEL **LEICA SR530**
RECEIVER S/N

SESSION	DATE: 8/201012:44:00 P	START TIME	12:44		U.T.C.
REAL TIME KINEMATIC	DAY OF YEAR	END TIME		X	LOCAL

ANTENNA HEIGHT (SLANT)

MTRS/FT	
MEASURED	FIXED HGT.

ANTENNA HEIGHT (ARP)

MTRS/FT	2.000 Meters
MEASURED	X FIXED HGT

ANTENNA INFO

RADIUS (M)			
Antenna Serial #			
Antenna Type	AT502	Leica Geodetic L1/L2 Compact/GP	

TOP OF MONUMENT IS:	X	FLUSH
METERS/FEET		ABOVE GROUND
METERS/FEET		BELOW GROUND

NG DIRT RD

AERIAL TARGET	X	PHOTO I.D.
PUB. BENCH MARK		NEW CONTROL
PUB. CONTROL		BASE STATION

PHOTO: LOOKING NORTH



PHOTO: LOOKING SOUTH



PHOTO: LOOKING EAST



PHOTO: LOOKING WEST





**GPS CONTROL SURVEY
FIELD DATA SHEET**

PAGE:

JOB REFERENCE
Wayne Co. GA LiDAR 2010

POINT ID: **16B**
Proj. No.: **7505-050**

2670 Wilhite Drive
Lexington, KY 40503
859-277-8700 voice 859-277-8901 fax

STATE: **GA** COUNTY: **WAYNE** QUAD: _____

OPERATOR: **P. DEATER**

STATE PLANE COORDINATES GEORGIA EAST (1001)

RECEIVER MODEL: **LEICA SR530**
RECEIVER S/N: _____

NORTHING: **514209.685** ORTHO HT FT US: **57.810**
EASTING: **752889.461**

SESSION: _____ DATE: **04/08/10**
REAL TIME KINEMATIC DAY OF YEAR: _____

START TIME: **13:19** U.T.C.
END TIME: _____ X LOCAL

ANTENNA HEIGHT (SLANT)
MTRS/FT: _____
MEASURED _____ FIXED HGT. _____

ANTENNA INFO
RADIUS (M): _____
Antenna Serial #: _____
Antenna Type: **AT502** Leica Geodetic L1/L2 Compact/GP

ANTENNA HEIGHT (ARP)
MTRS/FT: **2.000 Meters**
MEASURED _____ X FIXED HGT _____

TOP OF MONUMENT IS: X FLUSH
METERS/FEET: _____ ABOVE GROUND
METERS/FEET: _____ BELOW GROUND

PASTURE-VACANT LOT

AERIAL TARGET X PHOTO I.D.
PUB. BENCH MARK _____ NEW CONTROL
PUB. CONTROL _____ BASE STATION

PHOTO: LOOKING NORTH

PHOTO: LOOKING SOUTH



PHOTO: LOOKING EAST



PHOTO: LOOKING WEST



2670 Wilhite Drive
Lexington, KY 40503
859-277-8700 voice 859-277-8901 fax

JOB REFERENCE
Wayne Co. GA LiDAR 2010

POINT ID: **17B**
Proj. No.: **7505-050**

STATE **GA** COUNTY **WAYNE** QUAD:

OPERATOR **P. DEATER**

STATE PLANE COORDINATES GEORGIA EAST (1001)

RECEIVER MODEL **LEICA SR530**
RECEIVER S/N

NORTHING **527526.037** ORTHO HT FT US **80.847**
EASTING **787895.947**

SESSION DATE: **7/201010:51:00 A**
REAL TIME KINEMATIC DAY OF YEAR

START TIME **10:51** U.T.C.
END TIME X LOCAL

ANTENNA HEIGHT (SLANT)
MTRS/FT
MEASURED FIXED HGT.

ANTENNA INFO
RADIUS (M)
Antenna Serial #
Antenna Type **AT502** Leica Geodetic L1/L2 Compact/GP

ANTENNA HEIGHT (ARP)
MTRS/FT **2.000 Meters**
MEASURED X FIXED HGT

TOP OF MONUMENT IS: X FLUSH
METERS/FEET ABOVE GROUND
METERS/FEET BELOW GROUND

EDGE TREE LINE

AERIAL TARGET X PHOTO I.D.
PUB. BENCH MARK NEW CONTROL
PUB. CONTROL BASE STATION

PHOTO: LOOKING NORTH

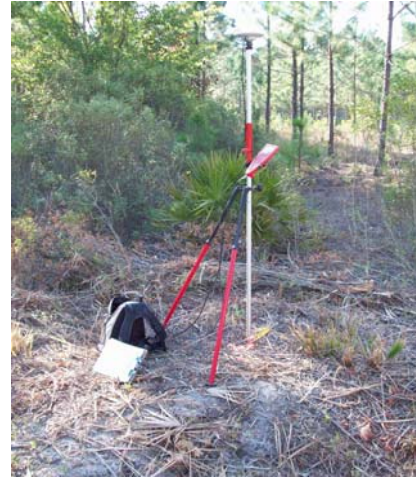
PHOTO: LOOKING SOUTH



PHOTO: LOOKING EAST



PHOTO: LOOKING WEST





**GPS CONTROL SURVEY
FIELD DATA SHEET**

PAGE:

JOB REFERENCE
Wayne Co. GA LiDAR 2010

POINT ID: **18B**
Proj. No.: **7505-050**

2670 Wilhite Drive
Lexington, KY 40503
859-277-8700 voice 859-277-8901 fax

STATE: **GA** COUNTY: **WAYNE** QUAD:

OPERATOR: **P. DEATER**

STATE PLANE COORDINATES GEORGIA EAST (1001)

NORTHING: **500107.703** ORTHO HT FT US: **63.187**
EASTING: **704143.625**

RECEIVER MODEL: **LEICA SR530**
RECEIVER S/N:

SESSION: DATE: **04/08/10** START TIME: **11:24** U.T.C.:
REAL TIME KINEMATIC DAY OF YEAR: END TIME: X LOCAL

ANTENNA HEIGHT (SLANT)
MTRS/FT:
MEASURED: FIXED HGT:

ANTENNA INFO
RADIUS (M):
Antenna Serial #:
Antenna Type: **AT502** Leica Geodetic L1/L2 Compact/GP

ANTENNA HEIGHT (ARP)
MTRS/FT: **2.000 Meters**
MEASURED: X FIXED HGT:

TOP OF MONUMENT IS: X FLUSH
METERS/FEET: ABOVE GROUND
METERS/FEET: BELOW GROUND

TREE LINE

AERIAL TARGET: X PHOTO I.D.
PUB. BENCH MARK: NEW CONTROL
PUB. CONTROL: BASE STATION

PHOTO: LOOKING NORTH

PHOTO: LOOKING SOUTH



PHOTO: LOOKING EAST



PHOTO: LOOKING WEST





**GPS CONTROL SURVEY
FIELD DATA SHEET**

PAGE:

JOB REFERENCE
Wayne Co. GA LiDAR 2010

POINT ID: **19B**
Proj. No.: **7505-050**

2670 Wilhite Drive
Lexington, KY 40503
859-277-8700 voice 859-277-8901 fax

STATE: **GA** COUNTY: **WAYNE** QUAD: _____

OPERATOR: **P. DEATER**

STATE PLANE COORDINATES GEORGIA EAST (1001)

RECEIVER MODEL: **LEICA SR530**
RECEIVER S/N: _____

NORTHING: **496753.106** ORTHO HT FT US: **59.265**
EASTING: **725347.361**

SESSION: _____ DATE: **04/08/10**
REAL TIME KINEMATIC DAY OF YEAR: _____

START TIME: **11:57** U.T.C.: _____
END TIME: _____ X LOCAL

ANTENNA HEIGHT (SLANT)
MTRS/FT: _____
MEASURED _____ FIXED HGT. _____

ANTENNA INFO
RADIUS (M): _____
Antenna Serial #: _____
Antenna Type: **AT502** Leica Geodetic L1/L2 Compact/GP

ANTENNA HEIGHT (ARP)
MTRS/FT: **2.000 Meters**
MEASURED _____ X FIXED HGT _____

TOP OF MONUMENT IS: X FLUSH
METERS/FEET: _____ ABOVE GROUND
METERS/FEET: _____ BELOW GROUND

TREE LINE E SIDE OF RD

AERIAL TARGET: X PHOTO I.D.
PUB. BENCH MARK: _____ NEW CONTROL
PUB. CONTROL: _____ BASE STATION

PHOTO: LOOKING NORTH

PHOTO: LOOKING SOUTH



PHOTO: LOOKING EAST



PHOTO: LOOKING WEST



2670 Wilhite Drive
Lexington, KY 40503
859-277-8700 voice 859-277-8901 fax

JOB REFERENCE
Wayne Co. GA LiDAR 2010

POINT ID: **20B**
Proj. No.: **7505-050**

STATE: **GA** COUNTY: **WAYNE** QUAD:

OPERATOR: **P. DEATER**

STATE PLANE COORDINATES GEORGIA EAST (1001)

RECEIVER MODEL: **LEICA SR530**
RECEIVER S/N:

NORTHING: **494489.319** ORTHO HT FT US: **76.790**
EASTING: **756998.102**

SESSION: DATE: **04/08/10**
REAL TIME KINEMATIC DAY OF YEAR:

START TIME: **14:11** U.T.C.
END TIME: X LOCAL

ANTENNA HEIGHT (SLANT)
MTRS/FT:
MEASURED FIXED HGT.

ANTENNA INFO
RADIUS (M):
Antenna Serial #:
Antenna Type: **AT502** Leica Geodetic L1/L2 Compact/GP

ANTENNA HEIGHT (ARP)
MTRS/FT: **2.000 Meters**
MEASURED X FIXED HGT

TOP OF MONUMENT IS: X FLUSH
METERS/FEET: ABOVE GROUND
METERS/FEET: BELOW GROUND

TREE LINE

AERIAL TARGET X PHOTO I.D.
PUB. BENCH MARK NEW CONTROL
PUB. CONTROL BASE STATION

PHOTO: LOOKING NORTH

PHOTO: LOOKING SOUTH

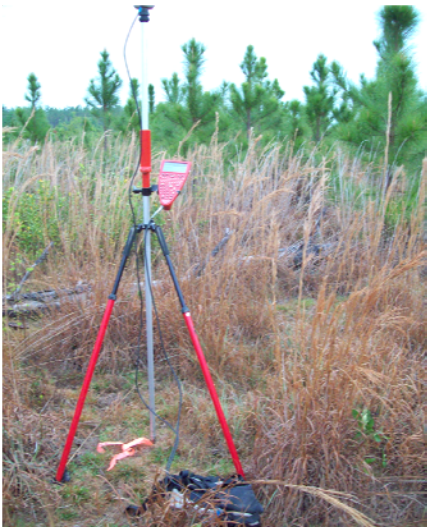


PHOTO: LOOKING EAST

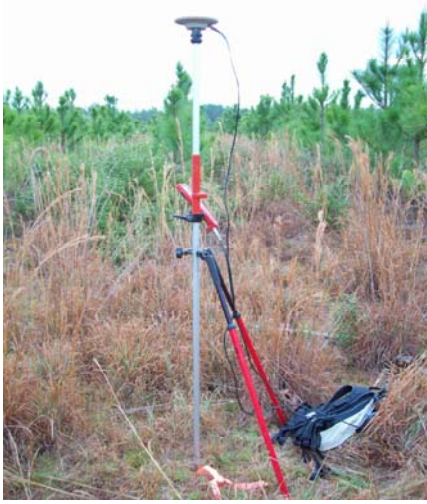


PHOTO: LOOKING WEST

