

### **SURVEY CONTROL REPORT**

# Martin County/USGS Cooperative Agreement No. G15AC00109 3DEP Program

For:

### MARTIN COUNTY, FLORIDA

Martin County Administrative Center 2401 SE Monterey Road Stuart, FL 34996

BY:

## WOOLPERT, INC.

10900 NW 25<sup>th</sup> Street, Suite 100 Miami, Florida 33172

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# RESPONSIBLE PROFESSIONAL SURVEYOR AND MAPPER: JOHN A. CESTNICK, PSM #5994

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#### Introduction

Project Purpose: To provide survey ground control and QA/QC control observations to support a Countywide 3D Elevation Program.

The Countywide 3D Elevation Program was to support primary and secondary engineering, surveying, flood plain/risk management, emergency services/response, GIS, conservation land restorations, environmental protection, natural and man-made infrastructure improvement initiatives. Data will be utilized for mapping, planning and design on various current and future local, federal, regional, state and water management regional impact initiatives such as FEMA/Flood Plain Mapping, Water Quality, C44 Everglades & Cypress Creek restoration projects, Indian River Lagoon/St. Lucie Estuary environmental protection, beach re-nourishment, flood resilience and mitigation, urban/rural infrastructure planning and improvements projects.

This task order specifications were based on the "U.S. Geological Survey National Geospatial Program Lidar Base Specification Version 1.2." These lidar specifications were required baseline specifications for this task order.

The full scope of services can be found within Woolpert Project Number 076001.

#### **Project Area**

The project area was defined as the land boundary of Martin County Florida plus additional areas to the south within Palm Beach County (see Appendix A for project area). More specifically, the project mapping limits were outlined and defined within a Google Earth KMZ file named <a href="mailto:revised\_control\_diagram\_dec11\_2015.kmz">revised\_control\_diagram\_dec11\_2015.kmz</a>.

#### **Survey Date**

All field surveying services were completed in the field between December 15 and 19, 2015.

#### Methodology

#### **Ground Control Survey**

All LiDAR horizontal and vertical control stations were established and surveyed by Woolpert Inc. The field crew utilized Real-Time Kinematic (RTK) GPS surveying utilizing the Trimble VRS Now, Virtual Reference Station system throughout the ground control data collection process. Using RTK GPS techniques, observations were performed on a total of 34 LiDAR data calibration control points, 46 Non-vegetated Vertical Accuracy (NVA) check points and 35 Vegetated Vertical Accuracy (VVA) check points.

The survey was conducted using a 1-second epoch rate, in a fixed solution RTK mode, with each observation lasting between 60 and 180 seconds. Each station was occupied twice to insure the necessary horizontal and vertical accuracies were being met for this LiDAR project.

A listing of all Ground Control Stations as well as information sheets and photos can be found in Appendix B.

#### Virtual Reference System (VRS)

The "Virtual Reference Station" (VRS) concept is based on having a network (spaced at 50-60 km) of GNSS (GPS or GPS/GLONASS) reference stations permanently connected to the control center via the



Internet. The networked stations collectively and precisely, model ionospheric errors for the individual GNSS rover in the network coverage area. The rover interprets and uses the VRS network-correction data as if it is operating with a single physical base station on a very short baseline which increases the RTK performance. Corrections (vectors) are from the closest base, but because the ionospheric error (which is traditionally baseline dependent) is practically negated, the rover's degradation in accuracy due to baseline length starts when the rover is first initialized (at the work site). Thus, accuracies are increased and more consistent throughout the working region.

#### **Quality Control/Quality Assurance**

Existing NGS published bench marks were surveyed to assure that there were no discrepancies in the field observation data. Close examinations of the residuals showed no distortions in orientation or scale. A listing of the closures on the published NGS bench marks along with the NGS data sheets are found in Appendix D.

All ground control and quality control check points were collected in accordance with the project specific instructions and the "US Geological Survey National Geospatial Program Lidar Base Specification Version 1.2."

#### **Datums**

The horizontal datum for the project is the Florida State Plane Coordinate System (East Zone), referenced to the North American Datum 1983, 2011 readjustment (NAD83/2011) expressed in U.S. survey feet. The vertical datum is the North American Vertical Datum of 1988 (NAVD88), also expressed in U.S. survey feet. Units for both horizontal and vertical datums are expressed to two (2) decimal places.

#### **Deliverables**

Deliverables for this task order includes this signed and sealed survey report only.

#### **Survey Map Reference**

No hard copy map was created or delivered for this survey.

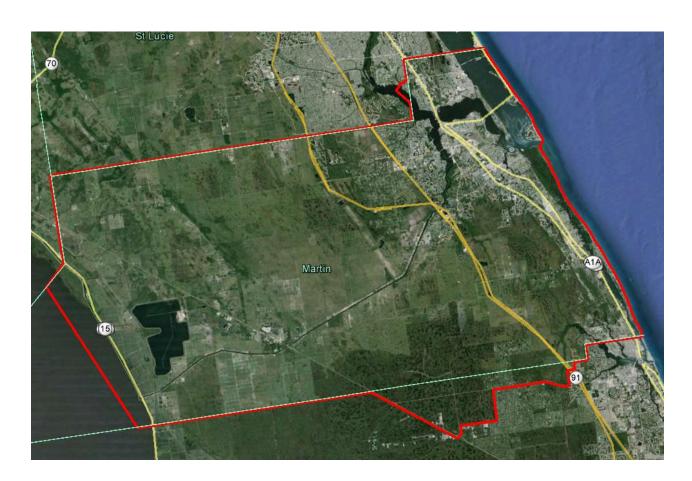
#### **Surveyor's Notes**

- 1. This survey is not valid without the signature and the original raised seal of a Florida licensed Surveyor and Mapper. Additions or deletions to survey maps or reports by other than the signing party or parties is prohibited without written consent of the signing party or parties.
- 2. This survey is not valid unless this sheet is accompanied by all sheets referenced here on.
- 3. This survey has been prepared for the exclusive use of Martin County, and does not extend to any other parties.

John Cestnick, Florida Professional Surveyor and Mapper No. LS5994 On behalf of: Woolpert, Inc., LB6777



## Appendix A | Project Area





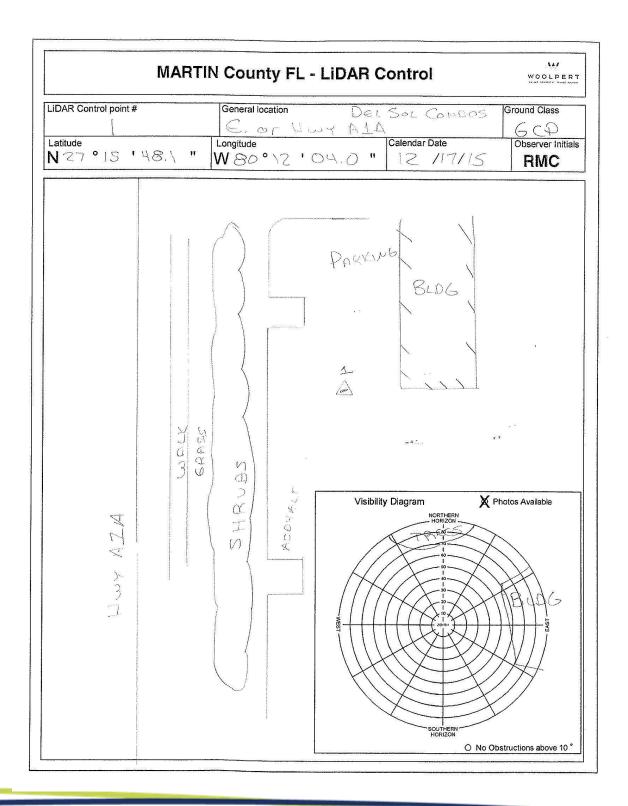
## Appendix B | Project Ground Control

### Ground Control Points (GCP)

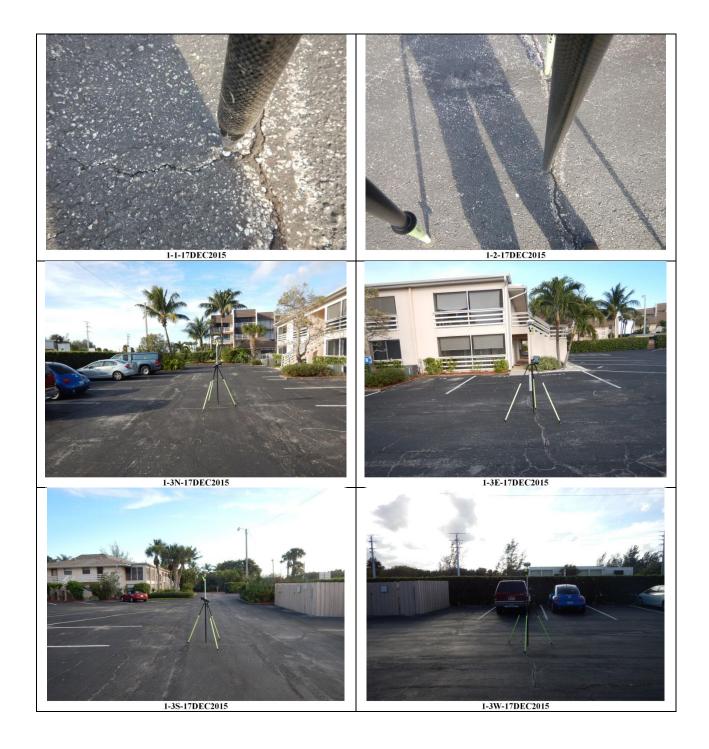
Points	State Plane Florida East Geoid 12A			Description
Politis	Northing (sFT)	Easting (sFT)	Elevation (sFT)	Description
1	1065735.75	915695.85	5.28	GCP
2	1043586.77	915210.19	11.69	GCP
3	1021926.80	918723.10	7.04	GCP
4	998692.39	938344.41	3.25	GCP
5	994243.58	943831.52	11.91	GCP
6	957597.04	954509.29	4.19	GCP
7	953909.40	906695.79	18.12	GCP
8	980786.81	896107.17	21.23	GCP
9	1010672.79	892123.19	8.01	GCP
10	1041650.99	888590.44	5.11	GCP
11	1057855.70	892457.31	11.90	GCP
12	1046799.11	896112.93	3.88	GCP
13	1043676.86	909489.48	9.96	GCP
14	1045937.29	847004.86	29.90	GCP
15	1028312.85	824640.35	29.09	GCP
16	1023955.77	856541.06	34.37	GCP
17	1012552.16	824776.15	28.71	GCP
18	995067.33	878381.98	28.82	GCP
19	979460.32	848460.48	25.63	GCP
20	961286.51	781704.46	19.09	GCP
21	996642.46	802447.29	33.20	GCP
22	1006981.83	782259.60	27.10	GCP
23	988363.48	772111.10	17.39	GCP
24	1043295.90	760169.03	32.79	GCP
25	1027259.62	758976.81	25.40	GCP
26	1022789.70	805449.80	36.72	GCP
27	1031653.33	795528.46	38.08	GCP
28	974685.06	814021.76	24.39	GCP
29	1032684.80	880677.03	15.43	GCP
30	937703.03	882897.70	23.92	GCP
31	964850.60	845817.76	24.51	GCP
32	949263.61	901512.57	19.81	GCP
33	971600.35	915383.54	16.41	GCP
34	1025821.89	901865.84	11.19	GCP



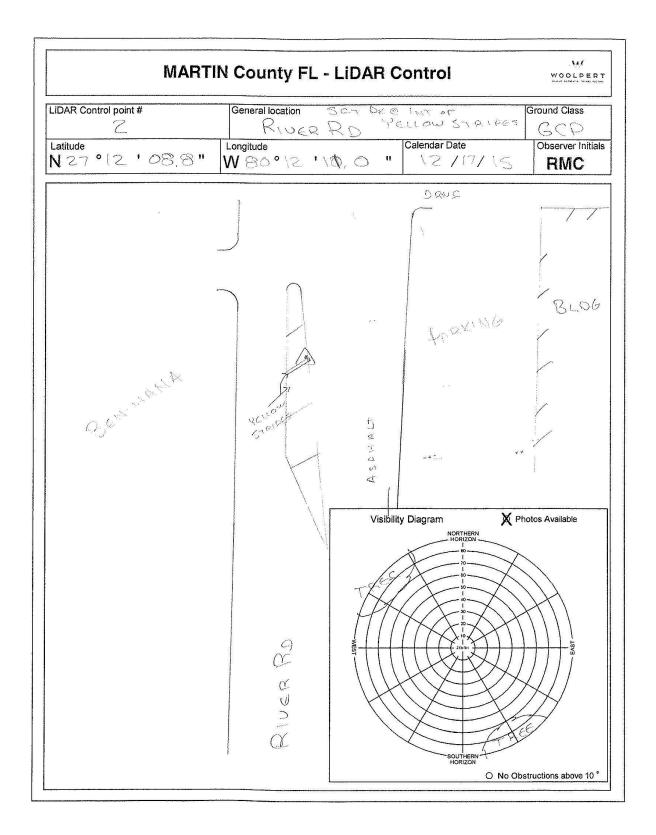
# Ground Control Point Log Sheets and Photos



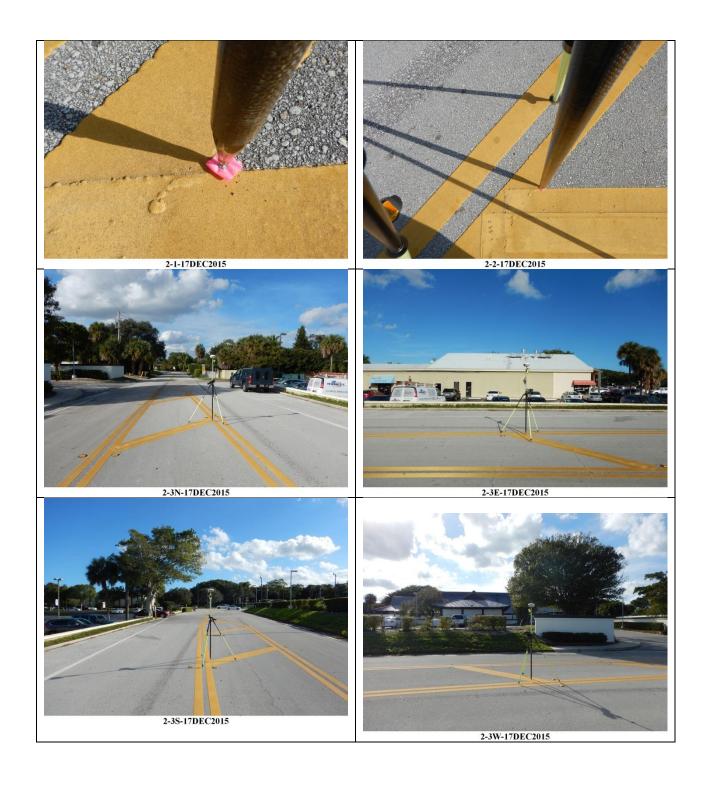




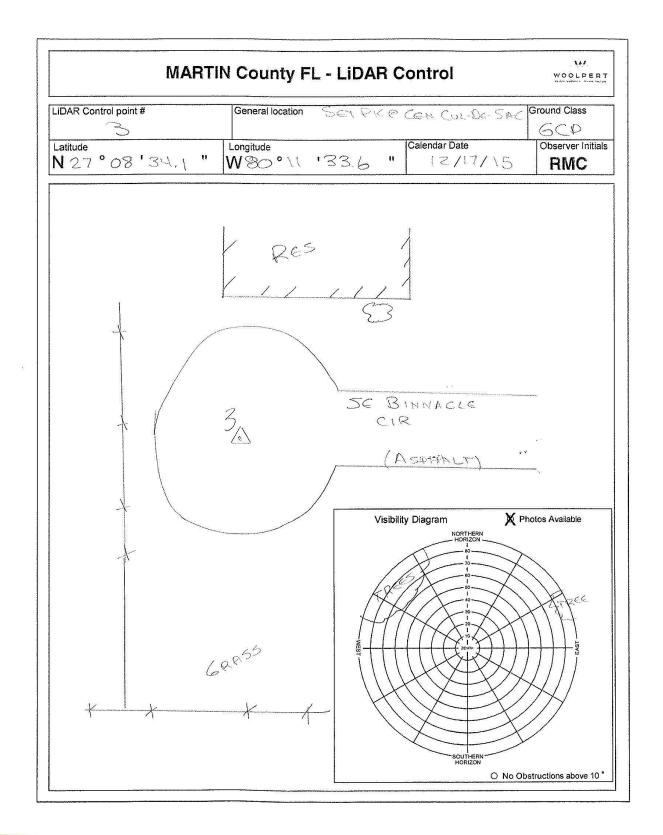








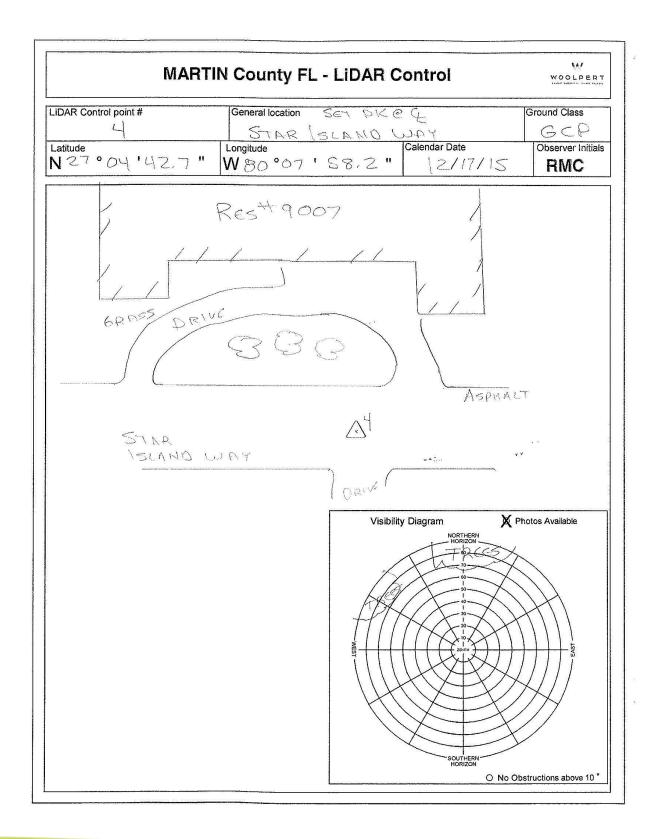








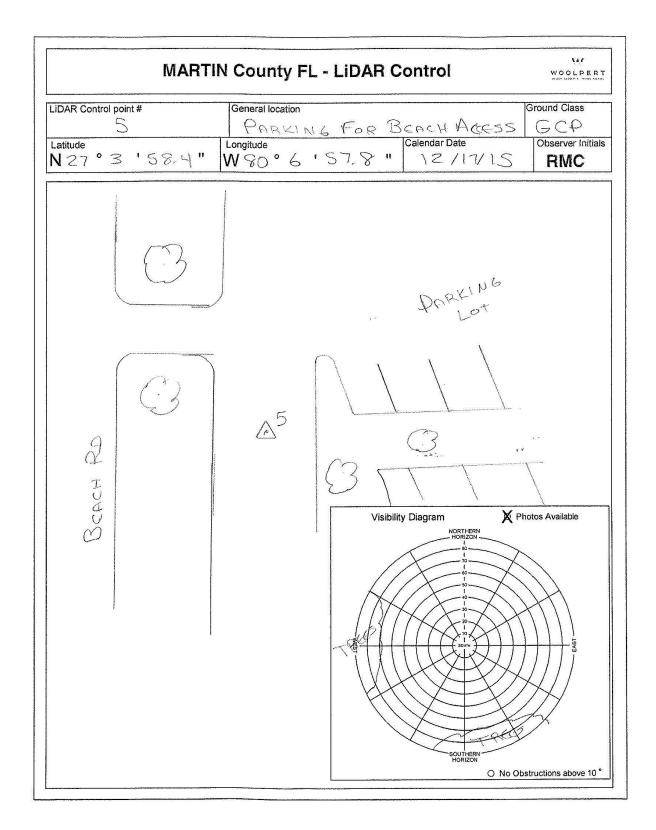








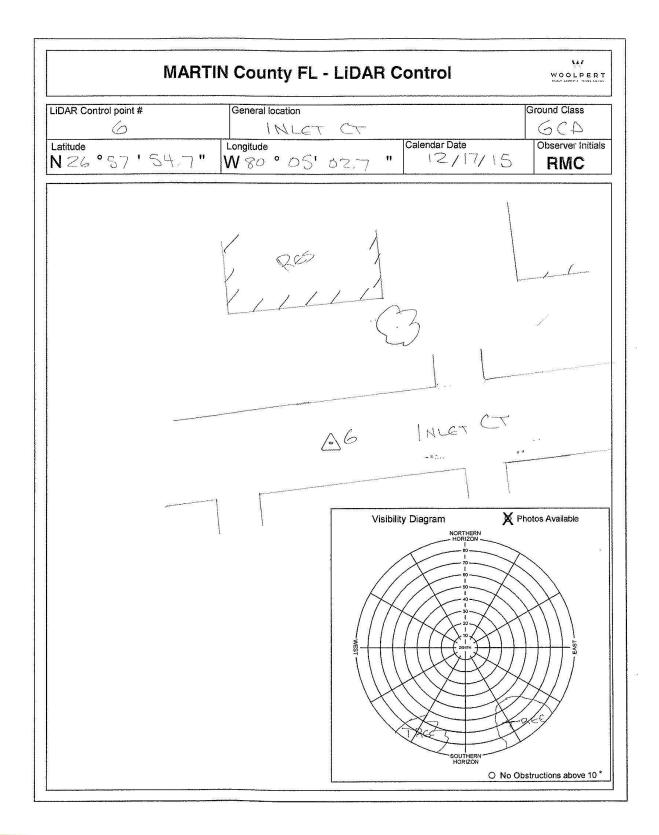




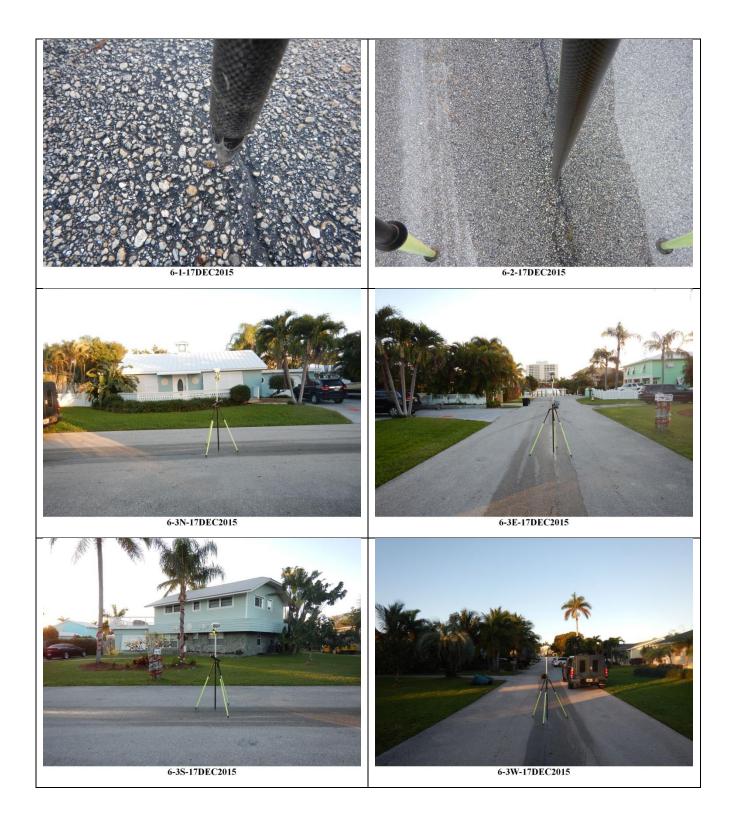




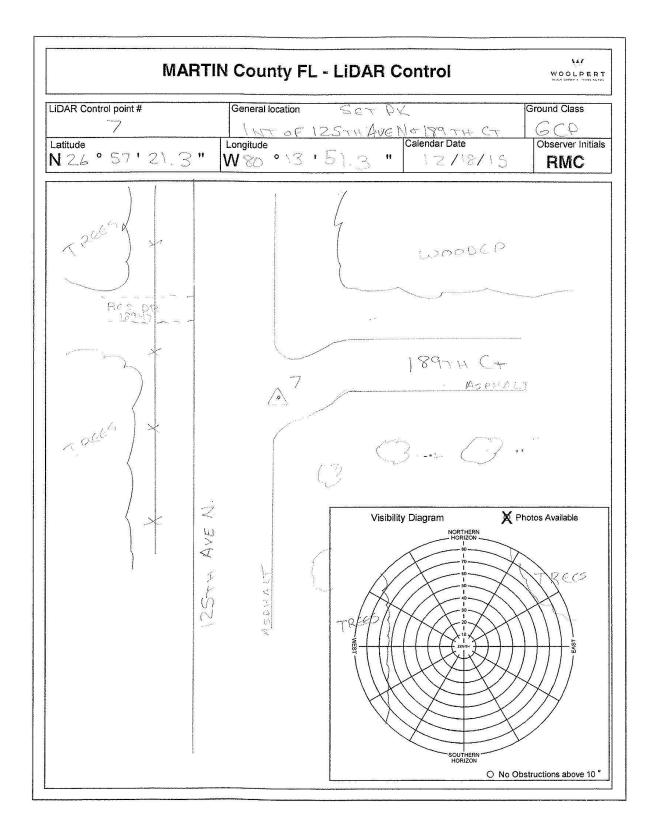








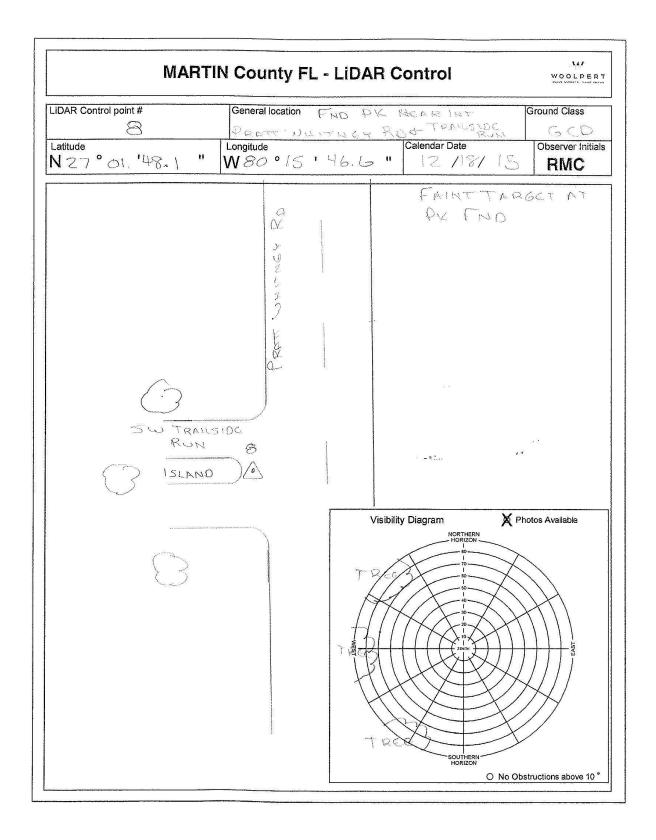








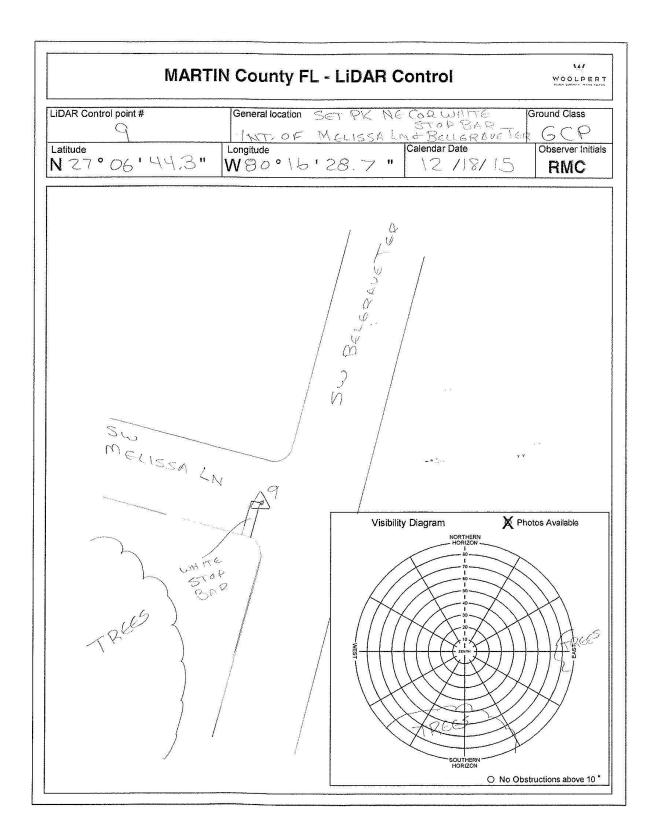








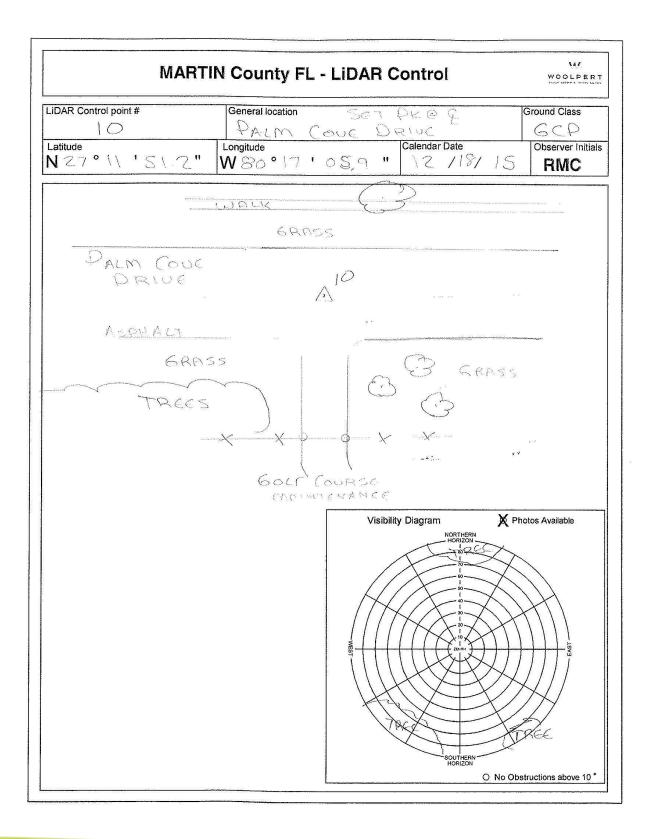




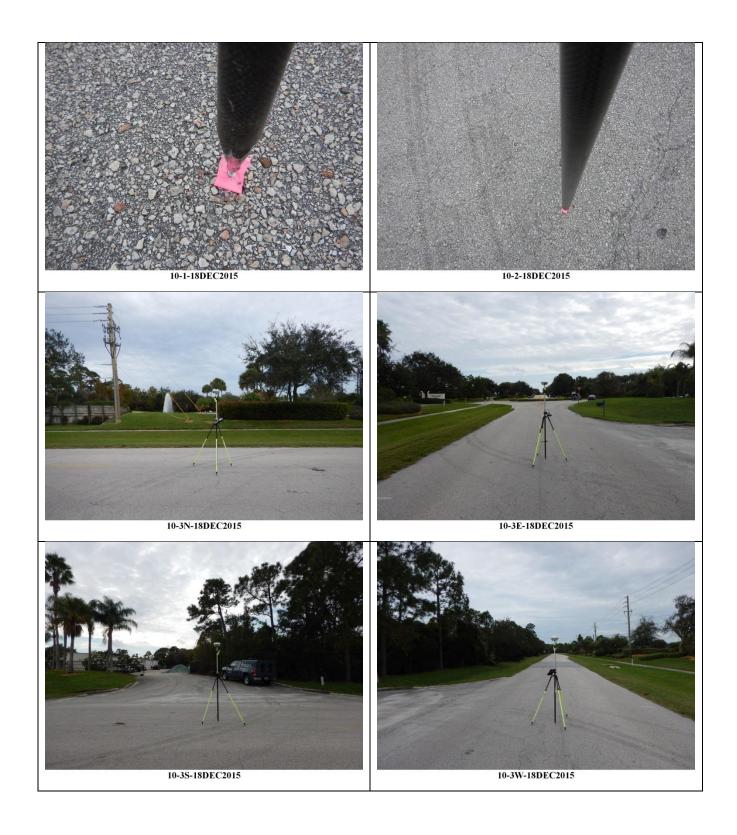




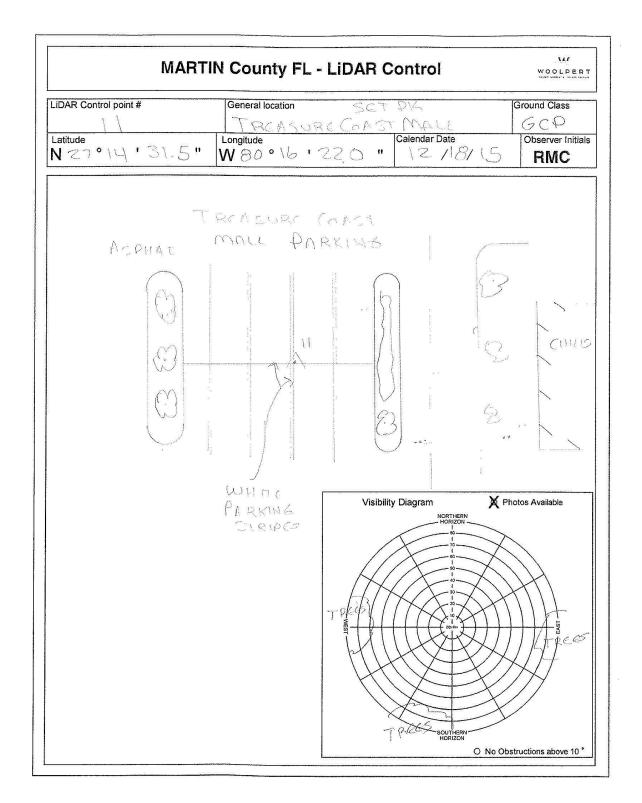








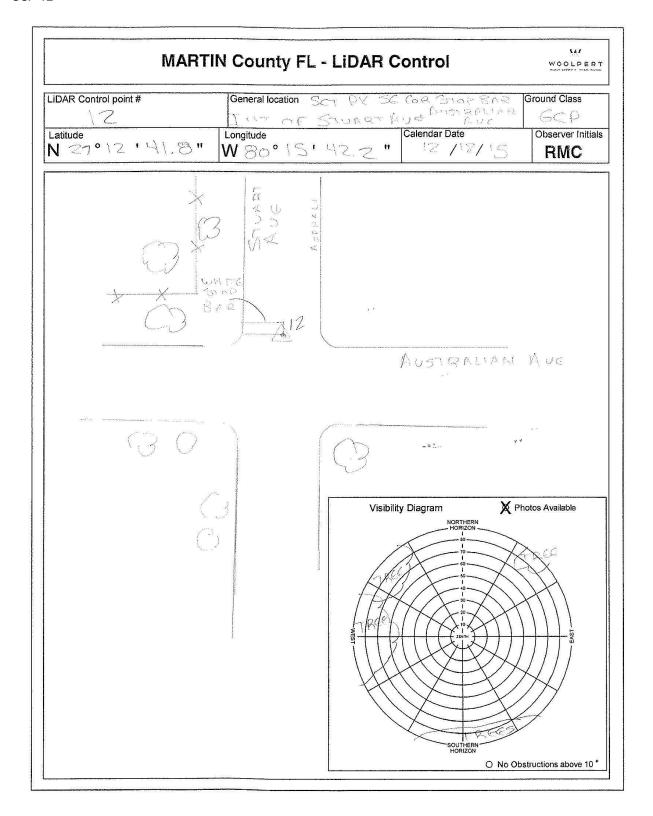




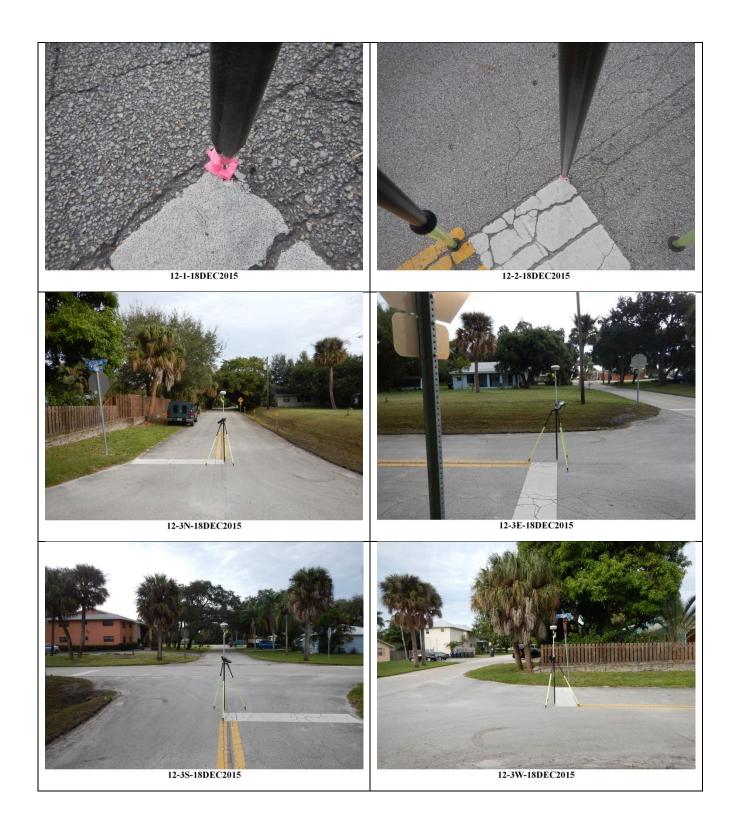




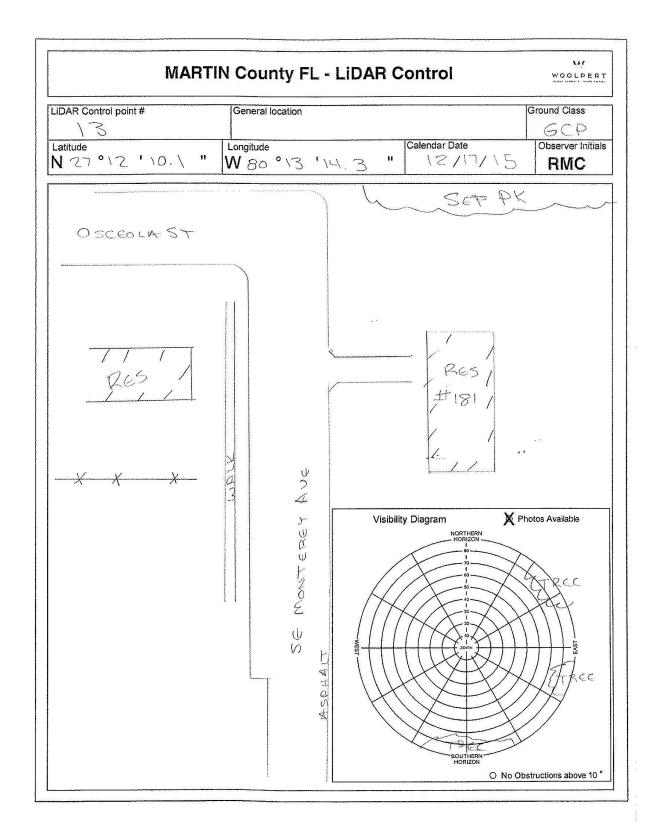








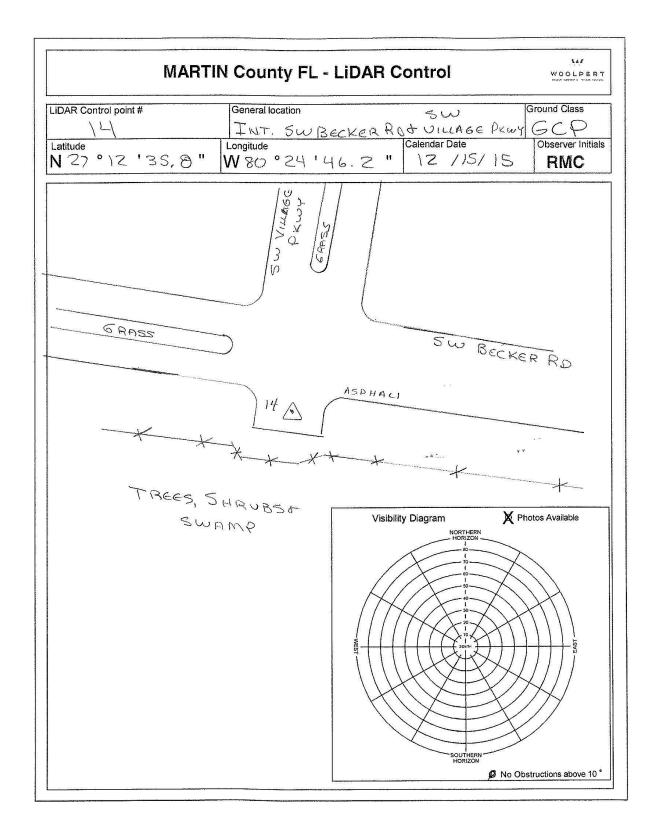




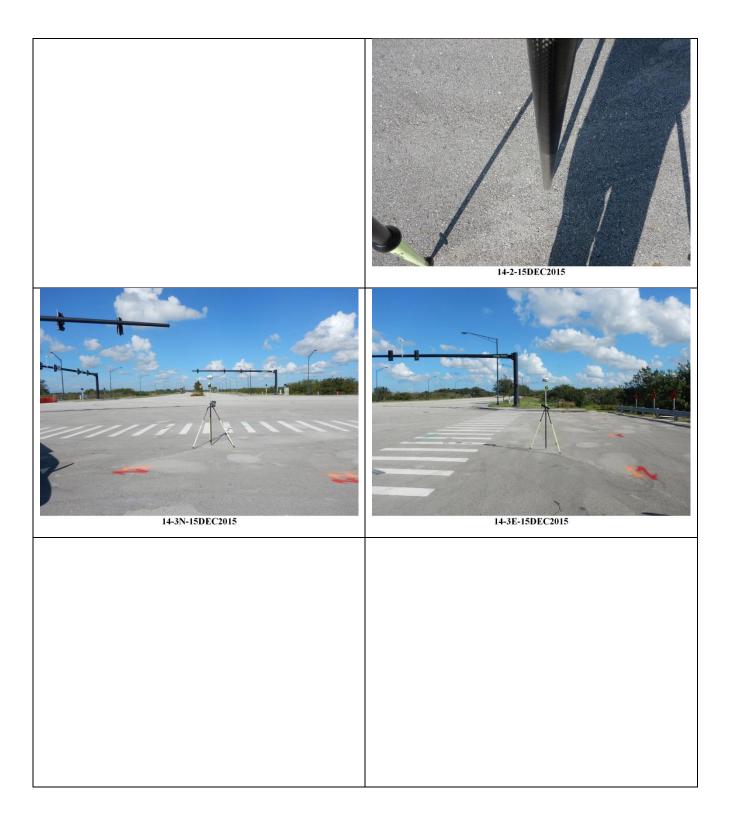




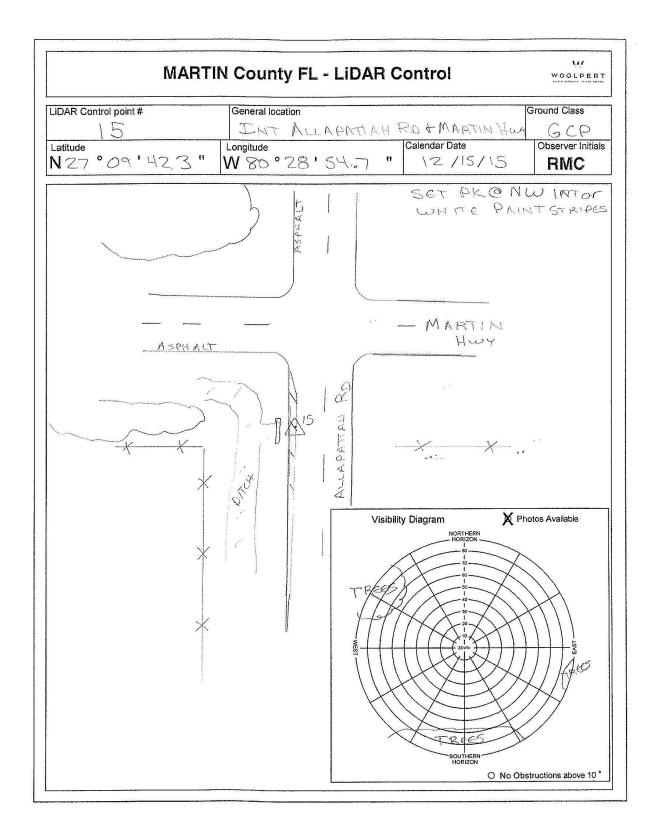




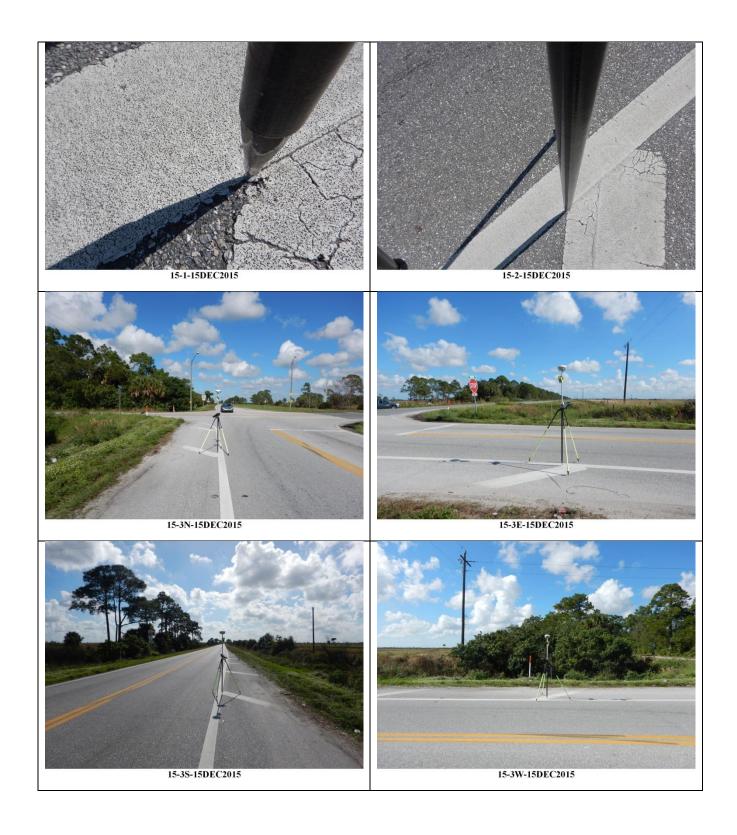




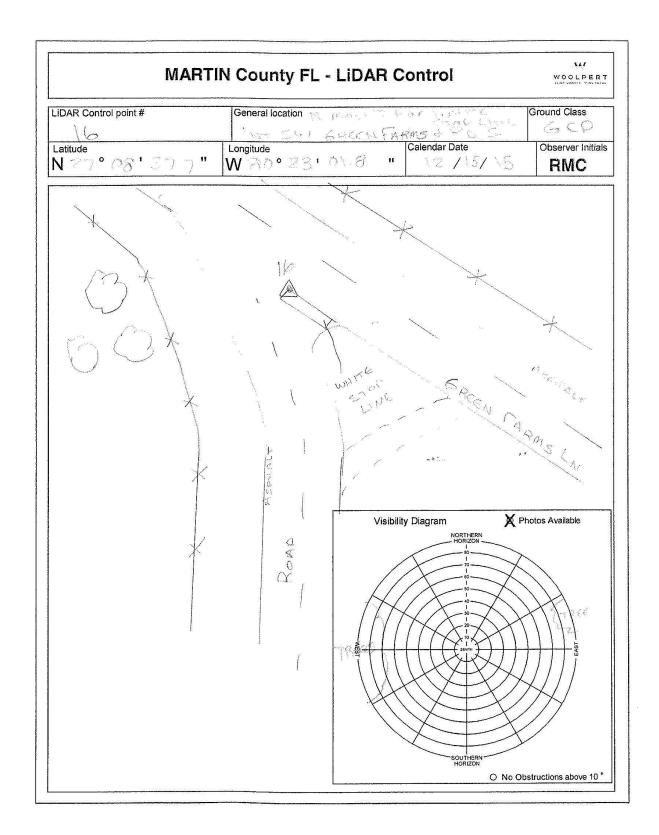








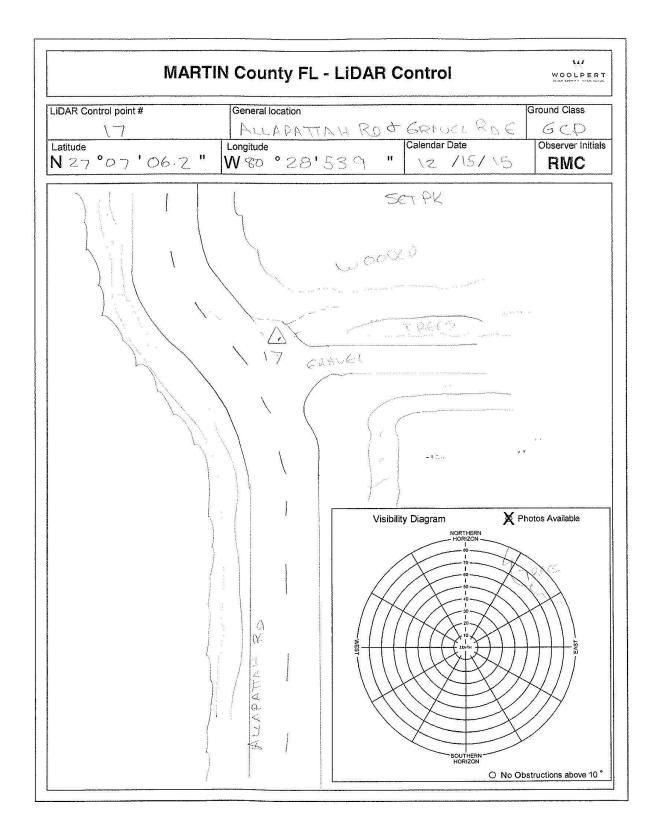








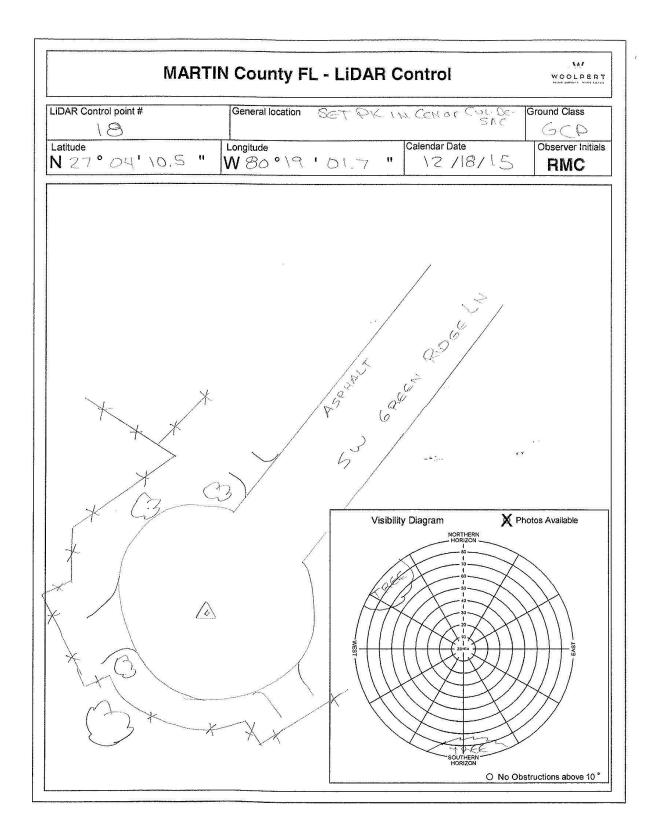




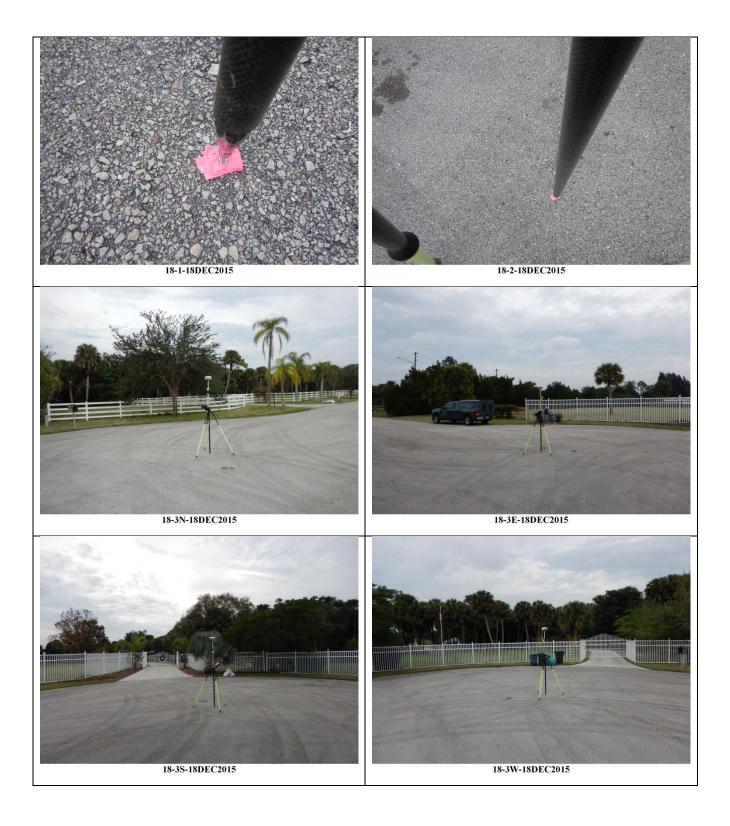




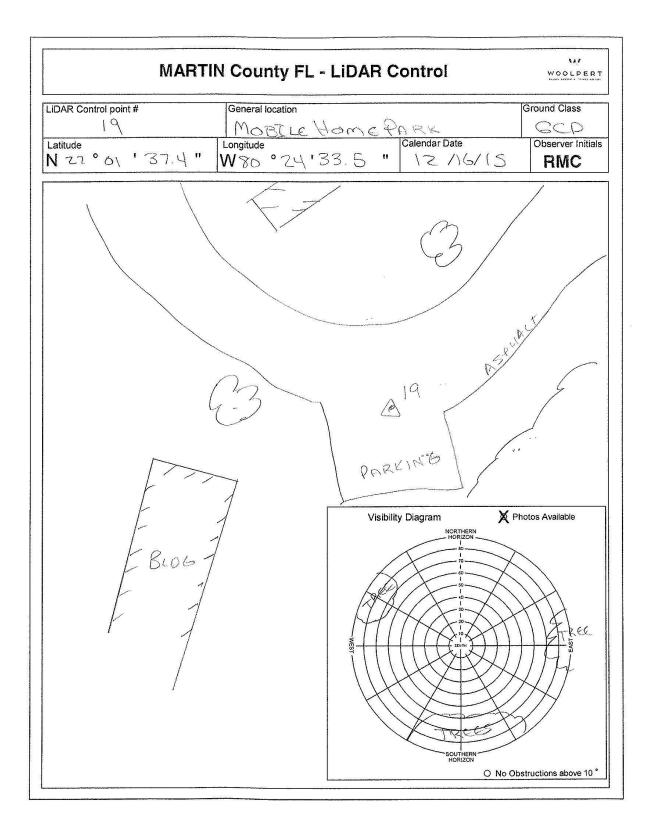








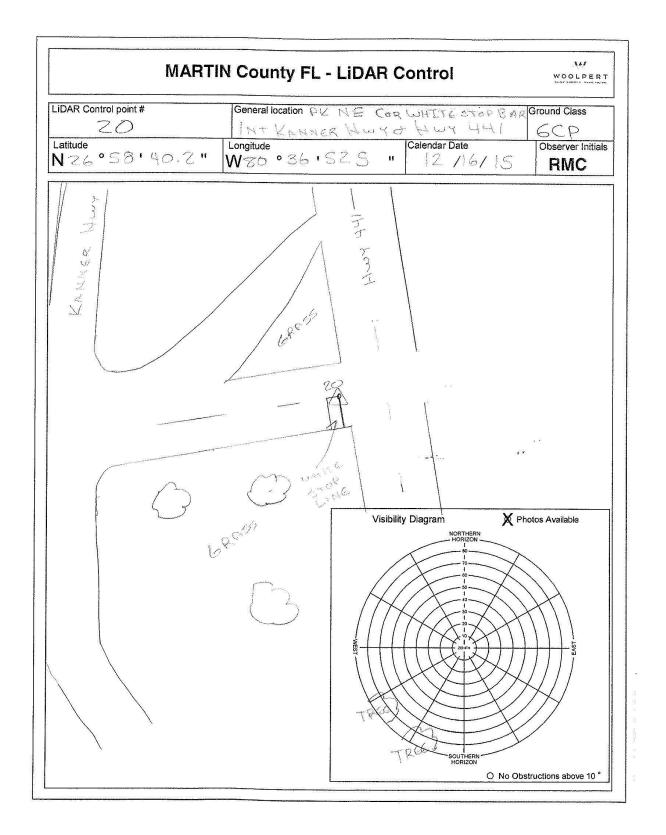








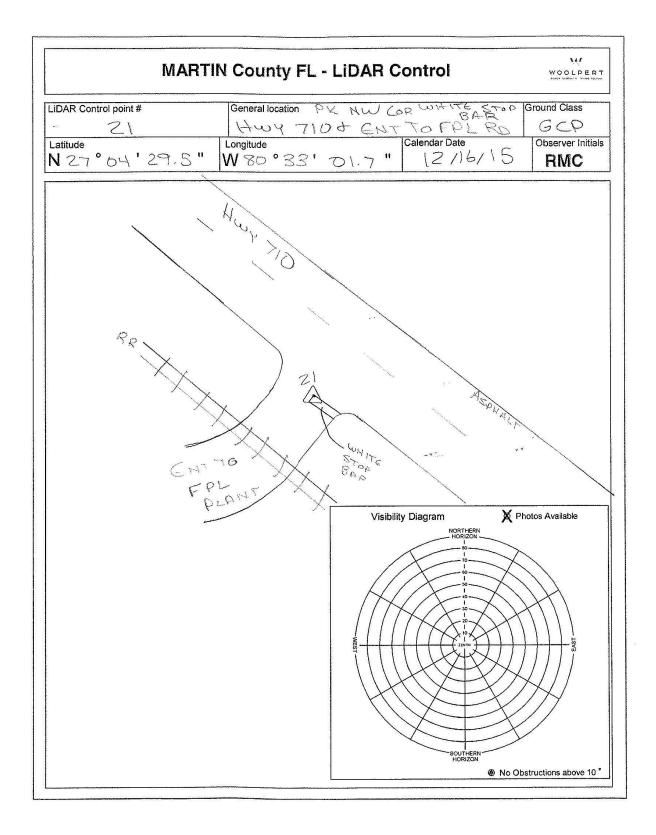




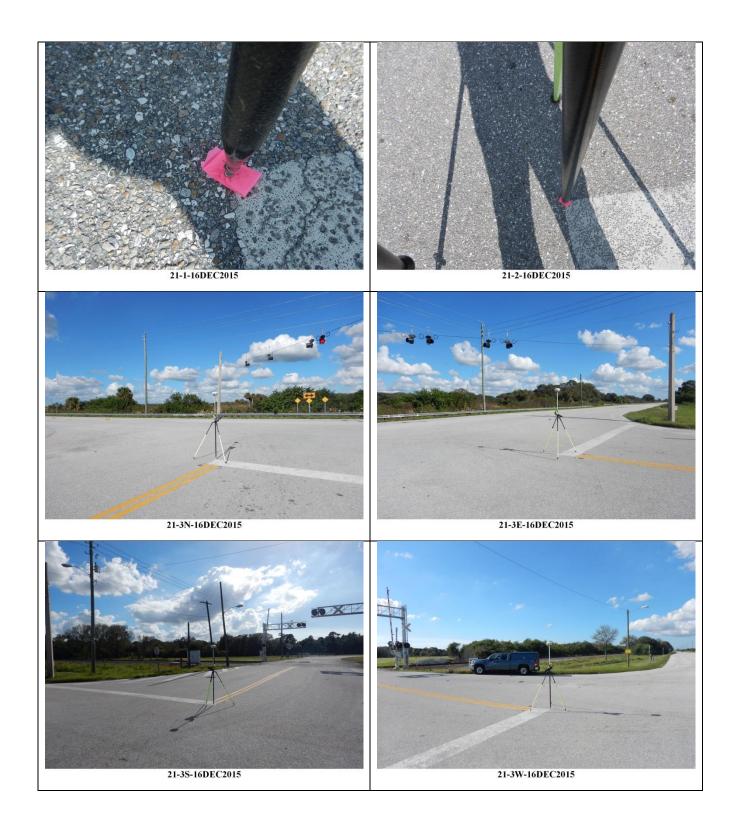




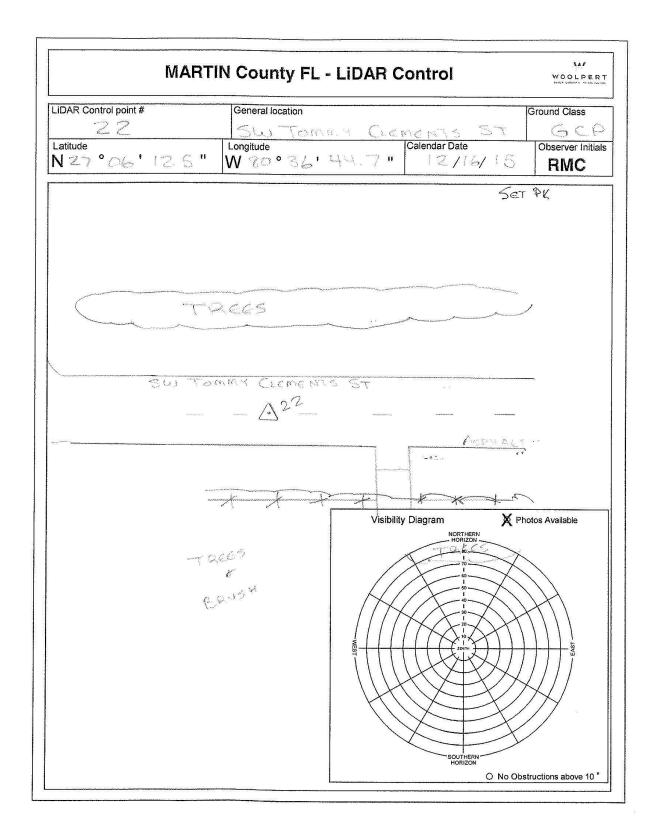




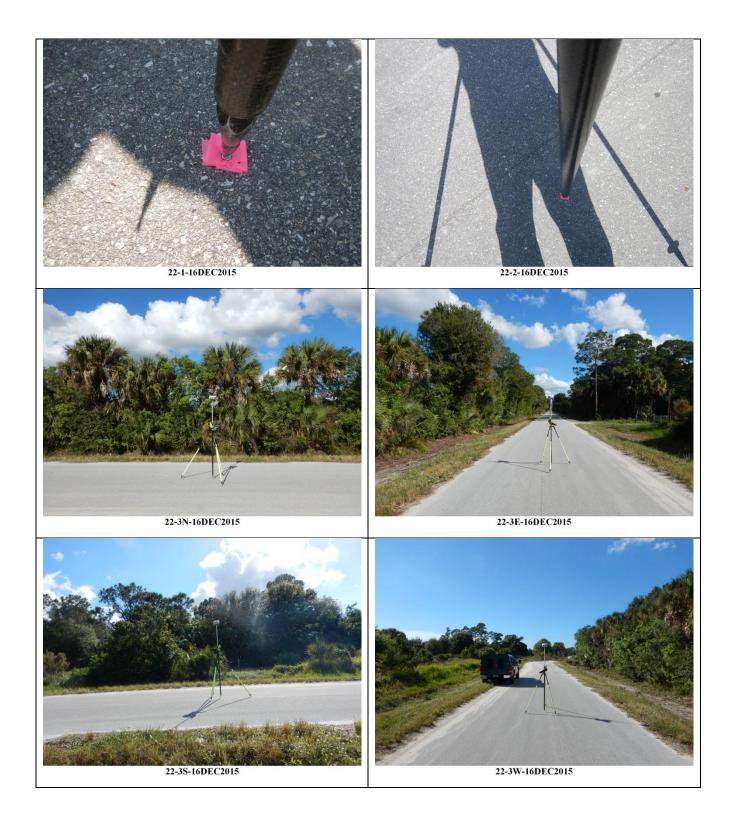




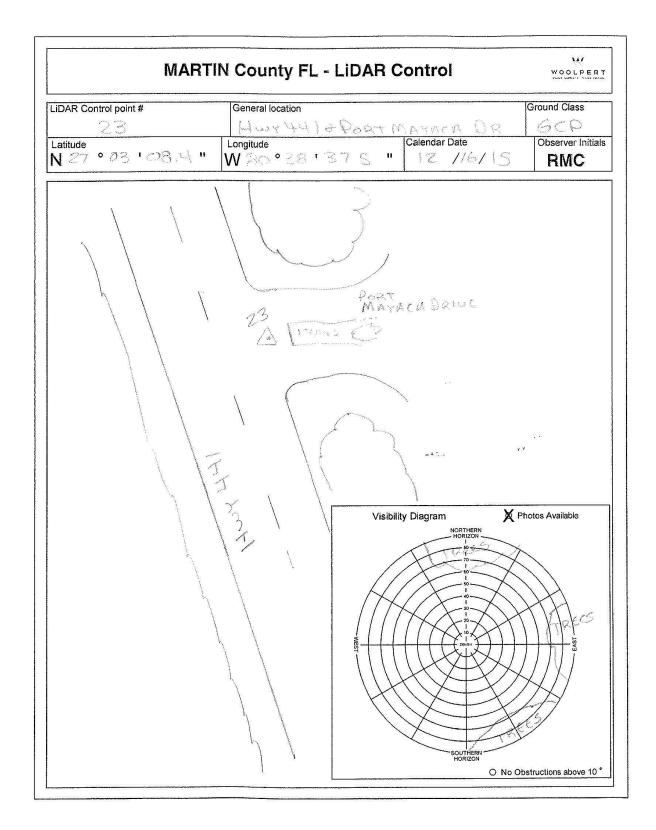








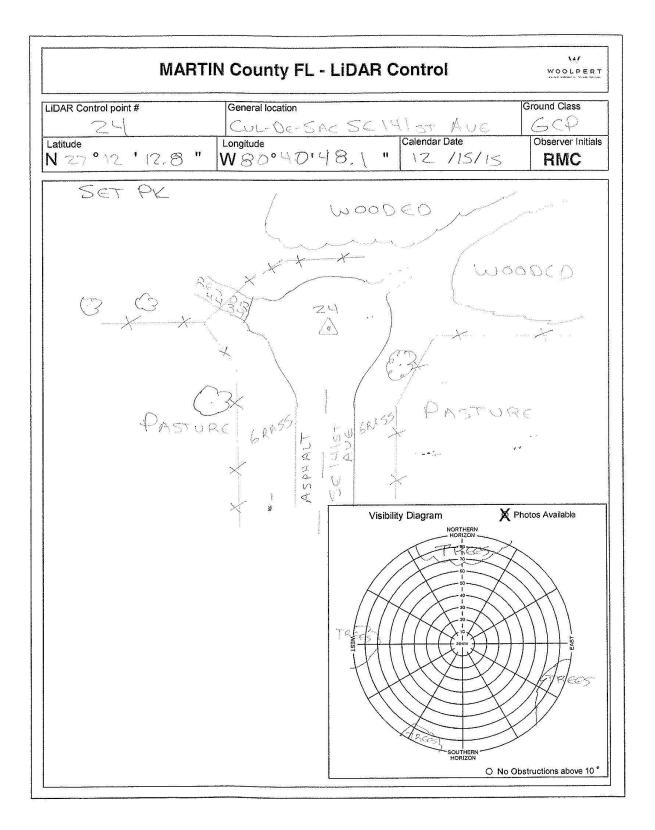




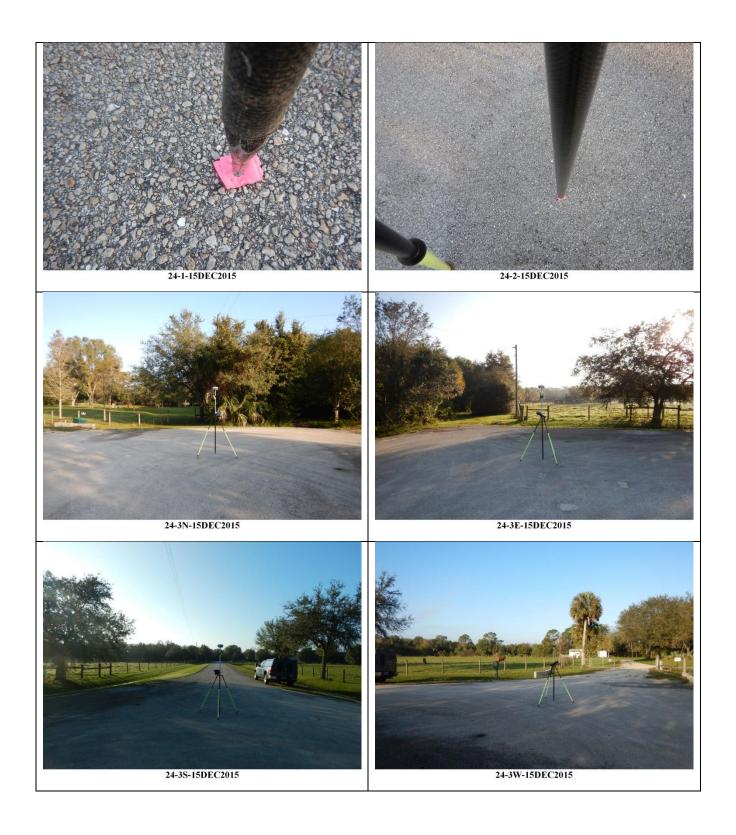




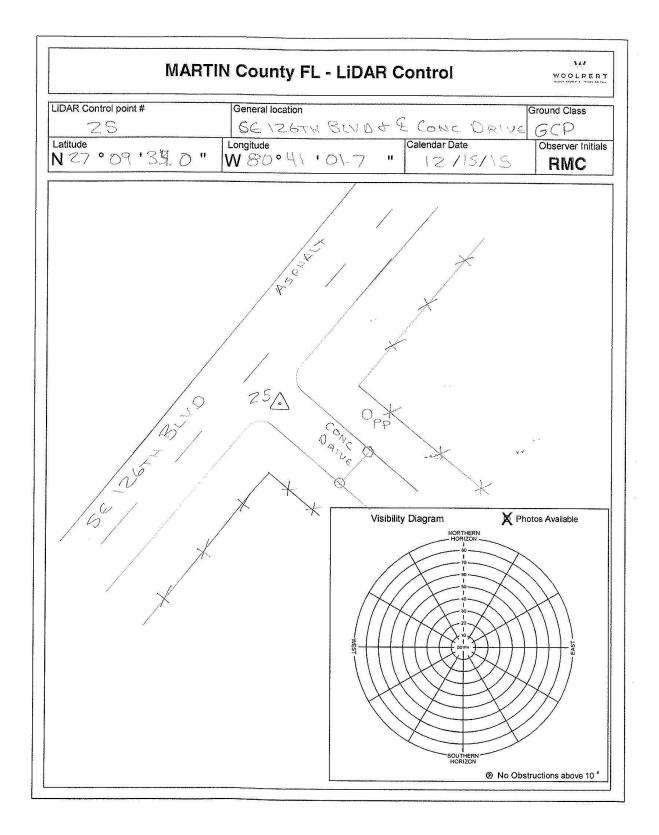








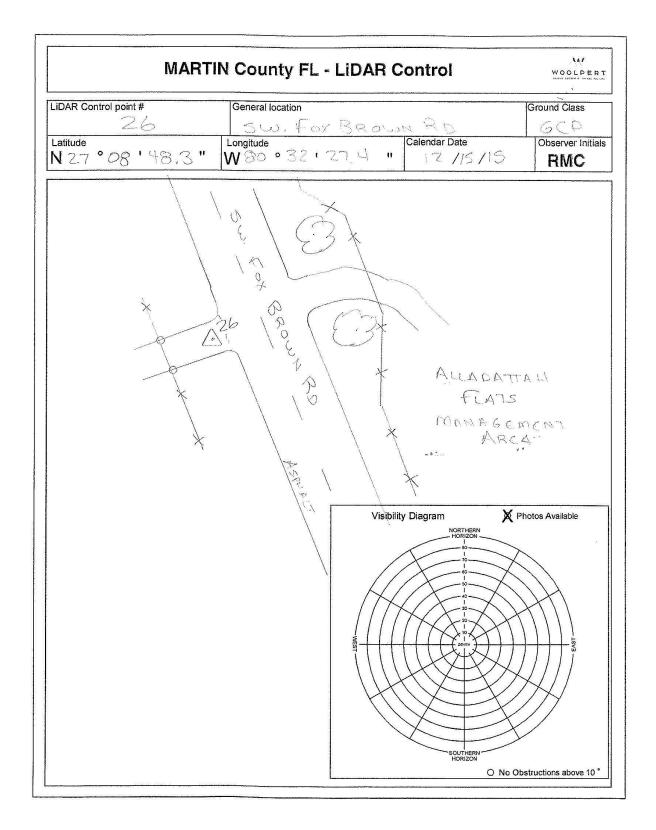








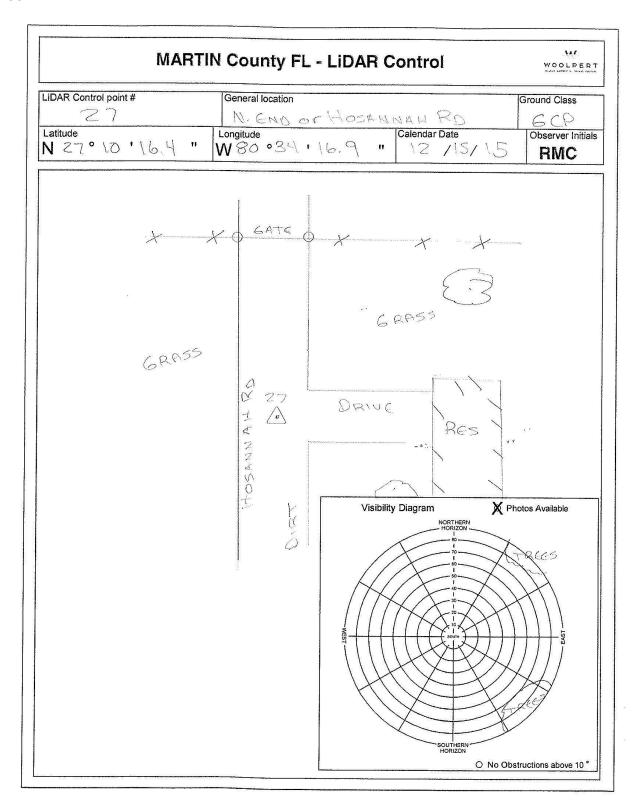








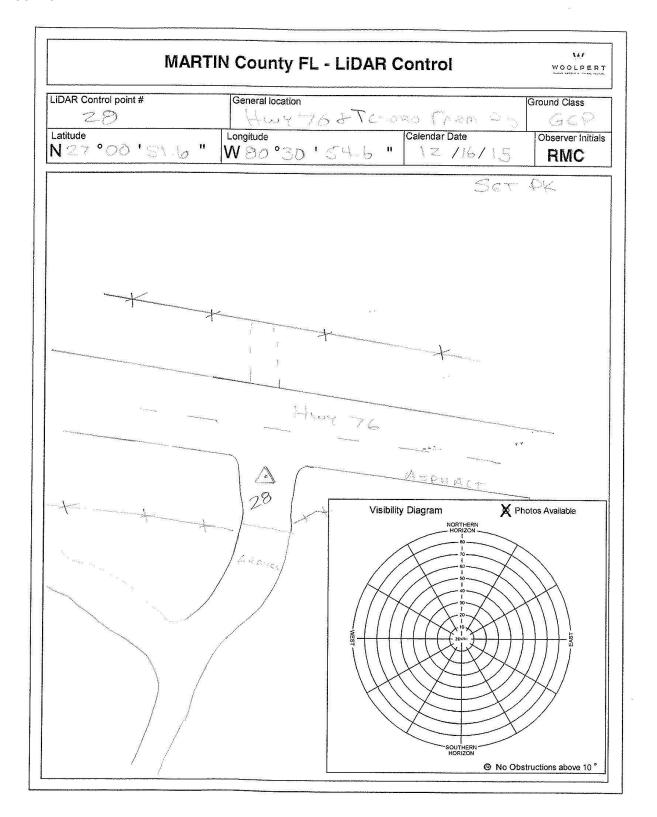








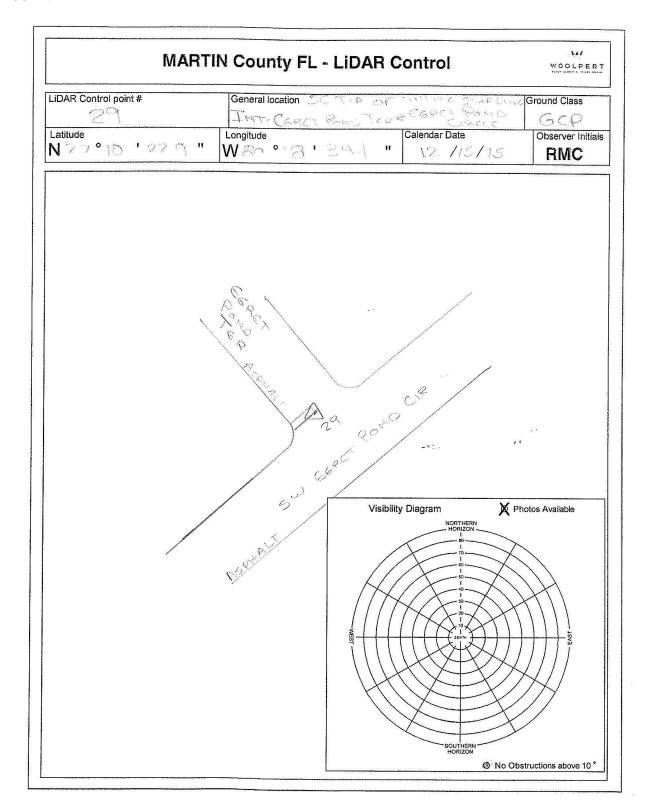








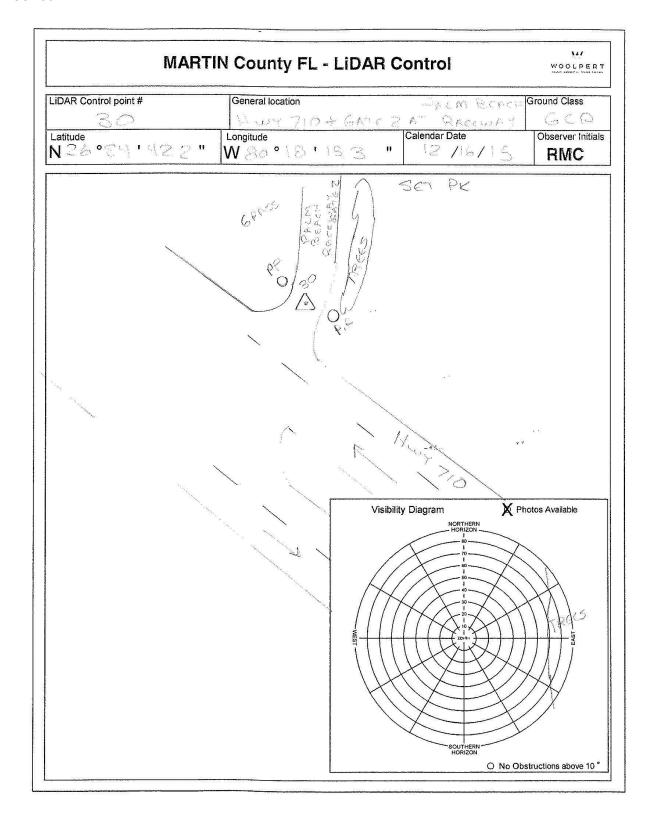




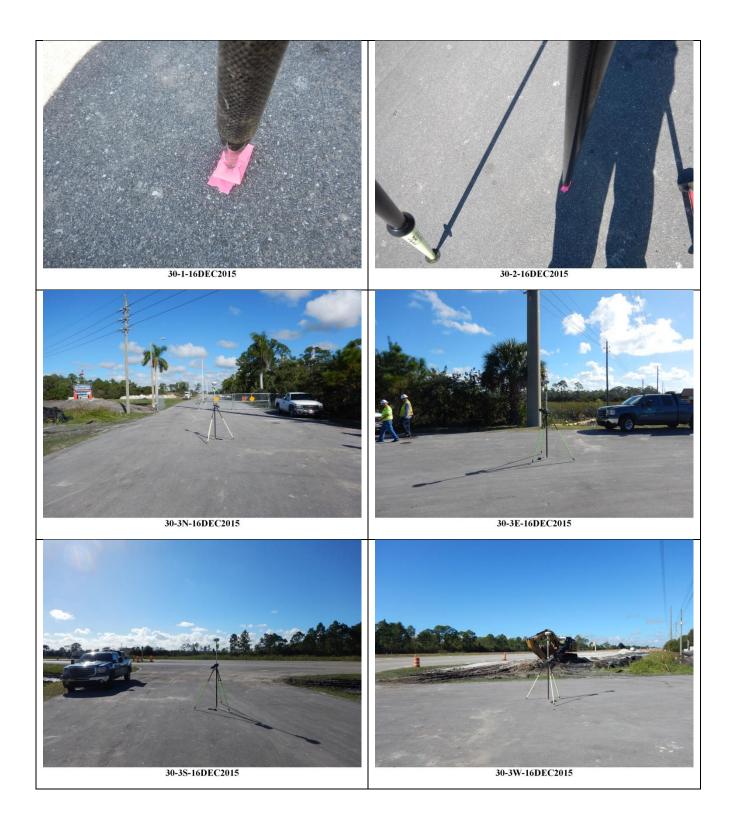




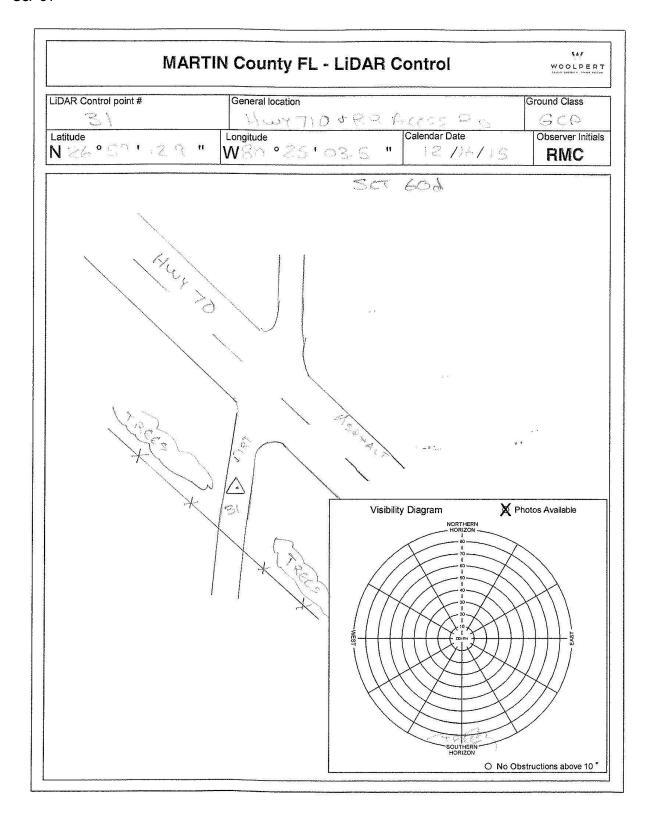








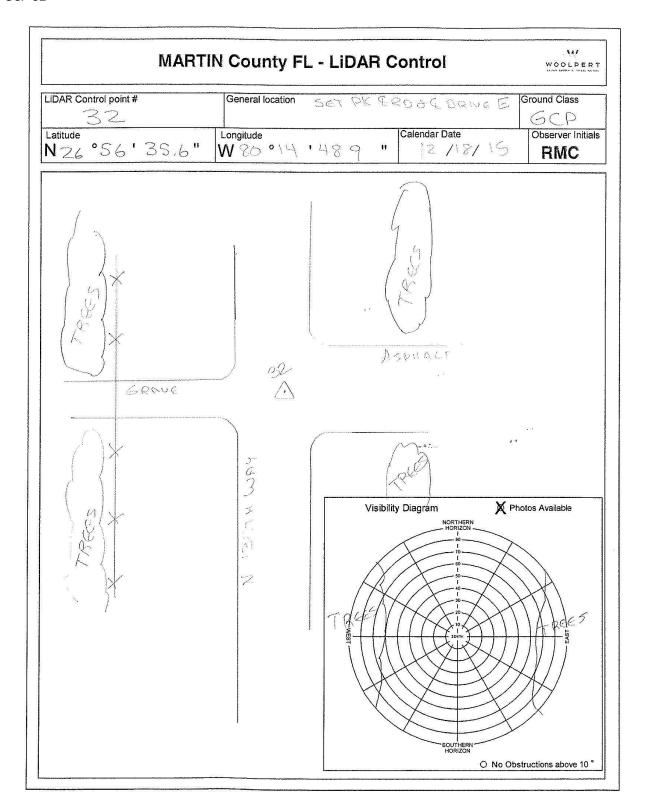




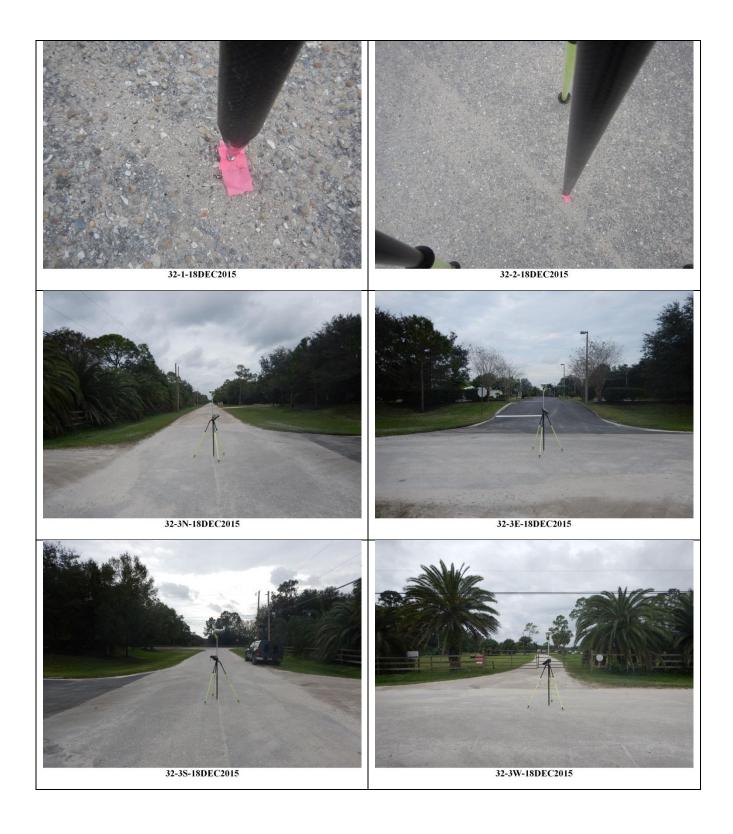




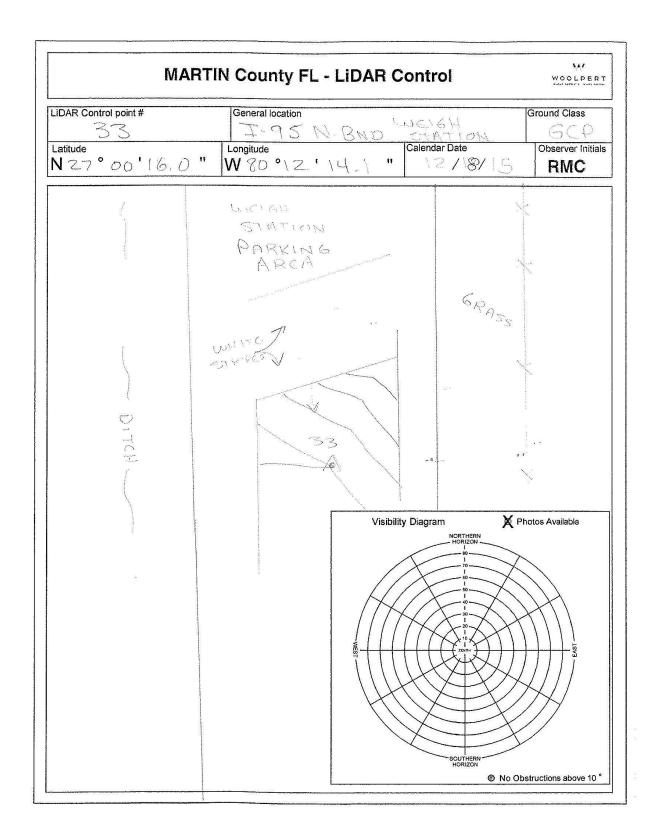








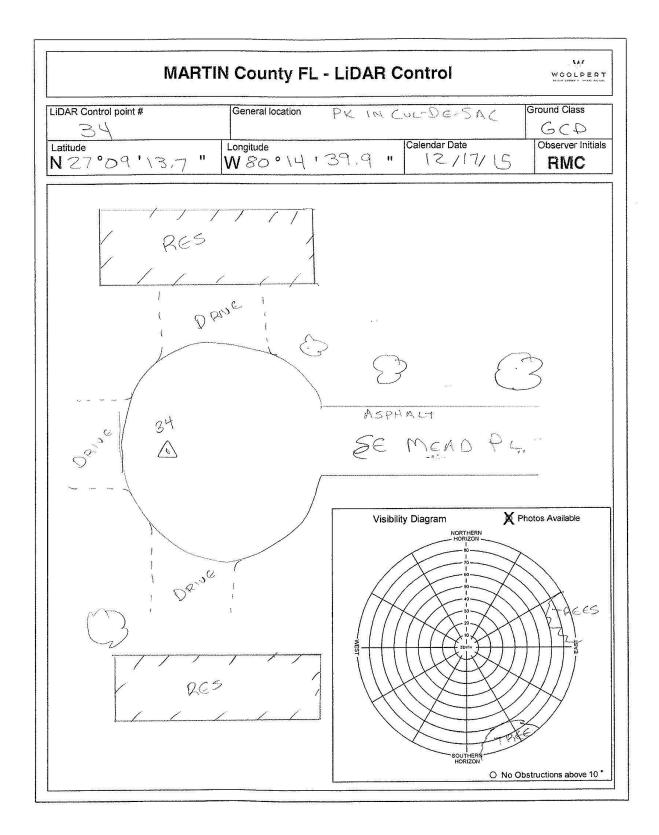




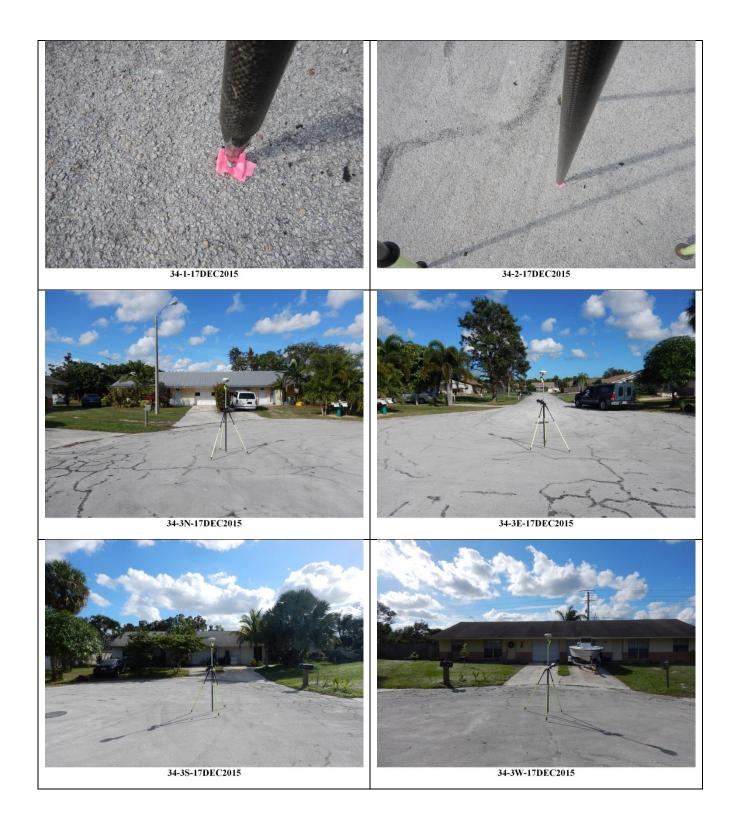














## Appendix C | QA/QC Check Point Listing

	Ground Classification				
State Plane Florida East Geoid 12A					
Points	Northing (sFT)	Easting (sFT)	Elevation (sFT)	Description	
2001	1065605.62	915631.63	3.96	NVA	
2002	1044070.02	916145.08	3.51	NVA	
2003	1022078.10	918977.61	7.25	NVA	
2004	999034.03	939208.54	3.05	NVA	
2005	993813.47	943688.52	11.72	NVA	
2007	953909.35	908457.56	17.93	NVA	
2008	956788.48	888260.33	24.19	NVA	
2009	980673.25	896151.85	20.40	NVA	
2010	1010073.50	889346.74	16.32	NVA	
2011	1037243.40	891249.95	7.79	NVA	
2012	1058192.46	890998.81	10.80	NVA	
2013	1036623.18	854296.84	26.92	NVA	
2014	1044256.97	824762.95	29.85	NVA	
2015	1023290.57	856591.26	32.71	NVA	
2016	1011132.54	824838.99	28.11	NVA	
2017	996598.32	877746.32	23.50	NVA	
2018	979468.99	848335.29	26.25	NVA	
2019	964722.25	786187.57	21.26	NVA	
2020	980154.77	824316.91	33.58	NVA	
2021	1007048.70	782000.59	26.71	NVA	
2022	988327.98	772286.49	16.69	NVA	
2023	1028295.49	761485.82	27.82	NVA	
2024	1028332.03	774273.05	34.04	NVA	
2025	1022877.86	805626.41	33.24	NVA	
2026	1028430.55	824724.06	28.17	NVA	
2027	995989.86	800159.73	34.16	NVA	
2028	974637.35	813924.59	26.22	NVA	
2029	1033271.66	881137.78	15.04	NVA	
2030	1028510.11	840694.29	29.83	NVA	
2030A	1043468.14	853910.74	26.78	NVA	
2031	985929.24	919419.09	15.63	NVA	
2031A	985977.53	914502.99	16.20	NVA	
2032	1008545.48	877553.80	21.52	NVA	
2033	1010463.11	813339.91	36.99	NVA	
2034	1039200.35	905572.95	11.83	NVA	
2035	986012.24	907064.70	17.35	NVA	



2036	1018985.46	909474.26	16.64	NVA
2037	959477.04	934750.65	12.86	NVA
2038	936803.01	888358.62	23.74	NVA
2039	1054052.01	910170.20	3.42	NVA
2040	978531.49	945699.80	33.91	NVA
2041	1038075.07	775253.20	33.52	NVA
2042	1006408.15	915574.31	16.96	NVA
2043	947474.64	923252.11	16.70	NVA
2044	979775.95	831849.73	37.89	NVA
3001	1063733.23	916522.48	3.69	VVA
3002	993953.85	943605.01	11.28	VVA
3003	978575.70	945646.89	33.39	VVA
3004	986067.26	928516.67	12.44	VVA
3005	965652.06	891342.80	20.15	VVA
3006	955889.80	881493.77	22.71	VVA
3007	980823.69	896202.39	17.74	VVA
3008	1010641.11	892073.14	7.507	VVA
3009	1037929.348	893301.158	4.408	VVA
3010	1058756.857	890915.011	9.982	VVA
3011	1047177.771	896253.527	7.445	VVA
3012	1043758.163	909547.105	9.43	VVA
3013	1036548.641	854200.757	27.205	VVA
3014	1044393.836	824935.136	30.146	VVA
3016	1012663.634	824643.282	28.374	VVA
3017	995565.813	878647.22	27.853	VVA
3018	980567.196	849090.29	25.071	VVA
3019	964767.136	786096.643	19.303	NVA
3020	980241.191	824338.081	34.196	VVA
3021	1006943.384	782264.13	26.658	VVA
3022	988395.625	772273.286	14.622	VVA
3023	1028270.72	761568.448	26.162	VVA
3024	1028754.653	786454.3	37.493	VVA
3025	1022827.714	805953.283	29.294	VVA
3026	1028455.336	824844.095	27.691	VVA
3027	1010434.245	813313.124	36.827	VVA
3027A	996244.799	800141.813	30.912	VVA



3028	983681.167	866959.961	24.93	VVA
3030	969054.093	934340.804	8.346	VVA
3031	1004540.267	913326.157	13.353	VVA
3032	964668.188	946394.212	12.468	VVA
3033	1025690.094	856681.026	33.487	VVA
3034	1025583.639	884441.301	16.626	VVA

## Appendix D | QA/QC Check Point Listing & NGS Datasheets

Point	Grid Deltas		
Polit	Δ Northing (sFT)	Δ Easting (sFT)	Δ Elev. (sFT)
F009 RTK	0.02	0.02	0.03
F014 RTK	-0.05	0.02	0.11
F018 RTK	-0.02	-0.01	0.28
GCY D23 RTK	-0.05	-0.02	0.05
MCGPS1006 RTK	0.03	0.01	0.01
N 522 RTK	0.02	0.05	0.08
P 516 RTK	-0.04	0.03	0.03
W 522 RTK	0.01	0.01	0.04



```
National Geodetic Survey, Retrieval Date = JANUARY 6, 2016
AF7687 DESIGNATION - F009
AF7687 PID - AF7687
AF7687 STATE/COUNTY- FL/MARTIN AF7687 COUNTRY - US
AF7687 USGS QUAD - INDIAN TOWN NW (1983)
AF7687
AF7687
                           *CURRENT SURVEY CONTROL
AF7687
AF7687* NAD 83(2011) POSITION- 27 12 21.31258(N) 080 28 52.82113(W) ADJUSTED
AF7687* NAD 83(2011) ELLIP HT- -17.807 (meters)
                                                 (06/27/12) ADJUSTED
AF7687* NAD 83(2011) EPOCH - 2010.00
AF7687* NAVD 88 ORTHO HEIGHT - 9.269 (meters) 30.41 (feet) ADJUSTED
AF7687
AF7687 NAD 83(2011) X - 938,712.030 (meters)
                                                             COMP
AF7687 NAD 83(2011) Y - -5,598,320.373 (meters)
                                                             COMP
AF7687 NAD 83(2011) Z - 2,898,518.884 (meters)
                                                             COMP
AF7687 LAPLACE CORR -
                        -1.47
                                    (seconds)
                                                             DEFLEC12B
                            -27.086 (meters)
AF7687 GEOID HEIGHT
                                                             GEOID12B
                             9.255 (meters)
AF7687 DYNAMIC HEIGHT -
                                                30.36 (feet) COMP
AF7687 MODELED GRAVITY - 979,106.2 (mgal)
                                                             NAVD 88
AF7687
AF7687 VERT ORDER - FIRST CLASS II
AF7687
AF7687 Network accuracy estimates per FGDC Geospatial Positioning Accuracy
AF7687 Standards:
AF7687
       FGDC (95% conf, cm) Standard deviation (cm)
                                                         CorrNE
AF7687
             Horiz Ellip
                                  SD N SD E SD h
AF7687 -----
AF7687 NETWORK 0.81 1.04
                                   0.35 0.31 0.53 0.08469434
AF7687 -----
AF7687 Click here for local accuracies and other accuracy information.
AF7687
AF7687
AF7687. The horizontal coordinates were established by GPS observations
AF7687.and adjusted by the National Geodetic Survey in June 2012.
AF7687.NAD 83(2011) refers to NAD 83 coordinates where the reference
AF7687.frame has been affixed to the stable North American tectonic plate. See
AF7687.NA2011 for more information.
AF7687. The horizontal coordinates are valid at the epoch date displayed above
AF7687.which is a decimal equivalence of Year/Month/Day.
AF7687. The orthometric height was determined by differential leveling and
AF7687.adjusted by the NATIONAL GEODETIC SURVEY
AF7687.in November 2015.
AF7687. Significant digits in the geoid height do not necessarily reflect accuracy.
AF7687.GEOID12B height accuracy estimate available here.
AF7687
AF7687. The X, Y, and Z were computed from the position and the ellipsoidal ht.
AF7687
AF7687. The Laplace correction was computed from DEFLEC12B derived deflections.
AF7687. The ellipsoidal height was determined by GPS observations
AF7687.and is referenced to NAD 83.
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AF7687
AF7687. The dynamic height is computed by dividing the NAVD 88
AF7687.geopotential number by the normal gravity value computed on the
AF7687. Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
AF7687.degrees latitude (g = 980.6199 \text{ gals.}).
AF7687
AF7687. The modeled gravity was interpolated from observed gravity values.
AF7687
AF7687. The following values were computed from the NAD 83(2011) position.
AF7687
AF7687;
                                                  Units Scale Factor Converg.
                           North
                                         East
AF7687; SPC FL E
                        318,326.052
                                      251,382.908
                                                  MT 0.99997376
                                                                     +0 14 13.7
                   - 1,044,374.72
                                                   sFT
                                                                     +0 14 13.7
AF7687; SPC FL E
                                      824,745.42
                                                        0.99997376
AF7687;UTM 17
                   - 3,009,349.422
                                      551,365.376
                                                       0.99963257
                                                                     +0 14 13.7
                                                  MT
AF7687
AF7687!
                    - Elev Factor x Scale Factor =
                                                        Combined Factor
AF7687!SPC FL E
                   - 1.00000280 x
                                      0.99997376 =
                                                       0.99997656
                  - 1.00000280 x
AF7687!UTM 17
                                        0.99963257 =
                                                       0.99963537
AF7687
AF7687
                                SUPERSEDED SURVEY CONTROL
AF7687
AF7687 NAD 83(2007) - 27 12 21.31263(N)
                                           080 28 52.82167(W) AD(2002.00) 0
AF7687 ELLIP H (02/10/07) -17.792 (m)
                                                               GP(2002.00)
AF7687 NAD 83(1999) - 27 12 21.31276(N)
                                           080 28 52.82206(W) AD(
                                                                         ) 1
AF7687 ELLIP H (06/19/01) -17.765 (m)
                                                                         ) 4 1
                                                               GP(
AF7687 NAD 83(1990) - 27 12 21.31132(N)
                                           080 28 52.82122(W) AD(
                                                                         ) 1
AF7687 ELLIP H (03/30/94) -17.731
                                     (m)
                                                               GP (
                                                                         ) 3 2
AF7687 NAVD 88 (05/02/02)
                                                           (f) SUPERSEDED 1 2
                             9.268
                                     (m)
                                                   30.41
AF7687 NAVD 88 (03/30/94)
                              9.2
                                     (m)
                                          GEOID93 model used GPS OBS
AF7687
AF7687. Superseded values are not recommended for survey control.
AF7687
AF7687.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.
AF7687. See file dsdata.txt to determine how the superseded data were derived.
AF7687
AF7687 U.S. NATIONAL GRID SPATIAL ADDRESS: 17RNL5136509349(NAD 83)
AF7687
AF7687 MARKER: F = FLANGE-ENCASED ROD
AF7687 SETTING: 15 = METAL ROD DRIVEN INTO GROUND. SEE TEXT FOR ADDITIONAL
AF7687+WITH SETTING: INFORMATION.
AF7687 STAMPING: F009 1992
AF7687 MARK LOGO: NGS
AF7687 PROJECTION: FLUSH
AF7687 MAGNETIC: N = NO MAGNETIC MATERIAL
AF7687 STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO
AF7687+STABILITY: SURFACE MOTION
AF7687 SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
AF7687+SATELLITE: SATELLITE OBSERVATIONS - January 13, 2015
AF7687 ROD/PIPE-DEPTH: 2.7 meters
AF7687
AF7687 HISTORY
                    - Date
                               Condition
                                                Report By
AF7687 HISTORY
                   - 1992
                            MONUMENTED
                                                KEISCH
AF7687 HISTORY
                   - 19930913 GOOD
                                                GENGRP
AF7687 HISTORY
                   - 19950208 GOOD
                                                SFLWMD
AF7687 HISTORY
                   - 20010906 GOOD
                                                FOST
AF7687 HISTORY
                   - 20050815 GOOD
                                                GCYI
AF7687 HISTORY
                   - 20050815 GOOD
                                                GCYI
AF7687 HISTORY
                   - 20060817 GOOD
                                                FLDEP
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AF7687 HISTORY - 20100730 GOOD FL-085 AF7687 HISTORY - 20150113 GOOD FLDEP

AF7687

AF7687 STATION DESCRIPTION

AF7687

AF7687'DESCRIBED BY KEITH AND SCHNARS - LAKELAND 1992

AF7687'THE STATION IS LOCATED ABOUT 14 MI (22.5 KM) WEST OF STUART NEAR THE

AF7687'MARTIN COUNTY/ST LUCIE COUNTY LINE IN THE EAST RIGHT-OF-WAY OF C.R.

AF7687'609 IN SECTION 6, TOWNSHIP 38 SOUTH, RANGE 39 EAST, MARTIN COUNTY,

AF7687'FLORIDA.

AF7687'TO REACH THE STATION FROM THE INTERSECTION OF C.R. 714 AND C.R. 609,

AF7687'NORTH OF INDIANTOWN, GO NORTH ON C.R. 609 FOR 3.1 MI (5.0 KM) TO

AF7687'CANAL C-23, THE COUNTY LINE, AND THE STATION ON THE RIGHT. THE

AF7687'STATION LIES SOUTH OF THE CANAL, 32.7 FT (10.0 M) SOUTH OF THE SOUTH

AF7687'END OF A CONCRETE HEADWALL, 3.5 FT (1.1 M) EAST OF A METAL GUARDRAIL,

AF7687'78.4 FT (23.9 M) WEST OF A BARBED WIRE FENCE, AND EAST OF A CARSONITE

AF7687'WITNESS POST.

AF7687'ACCESS TO THE DATUM POINT--THE STATION IS RECESSED INSIDE A NGS LOGO

AF7687'CAP MOUNTED ON A 5 INCH DIAMETER PVC PIPE SET IN A CONCRETE COLLAR

AF7687'SET FLUSH WITH THE GROUND.

AF7687'REFERENCES--

AF7687'FOUND X-CUT IN CONCRETE HEADWALL, MAGNETIC AZIMUTH OF 11 DEGREES AT AF7687'35.68 FT (10.88 M).

AF7687'KEITH AND SCHNARS NAIL AND DISC, SET IN WOOD FENCE CORNER, MAGNETIC

AF7687'AZIMUTH OF 90 DEGREES AT 78.38 FT (23.89 M) .

AF7687'KEITH AND SCHNARS NAIL AND DISC, SET IN WOOD P.I. POWER POLE, MAGNETIC

AF7687'AZIMUTH OF 160 DEGREES AT 148.70 FT (45.32 M) .

AF7687'FOUND NAIL AND DISC STAMPED TINKLE PAUGH SURVEYORS, SET IN TOP OF

AF7687'WOOD GUARDRAIL, MAGNETIC AZIMUTH OF 350 DEGREES AT 9.02 FT (2.75 M) .

AF7687

AF7687 STATION RECOVERY (2005)

AF7687

AF7687'RECOVERY NOTE BY G.C.Y., INCORPORATED 2005 (JES)

AF7687'RECOVERED AS DESCRIBED.

AF7687

AF7687 STATION RECOVERY (2006)

AF7687

AF7687'RECOVERY NOTE BY FL DEPT OF ENV PRO 2006 (BPJ)

AF7687'RECOVERED AS DESCRIBED.

AF7687

AF7687 STATION RECOVERY (2010)

AF7687

AF7687'RECOVERY NOTE BY MARTIN COUNTY FLORIDA 2010

AF7687'RECOVERED IN GOOD CONDITION.

AF7687

AF7687 STATION RECOVERY (2015)

AF7687

AF7687'RECOVERY NOTE BY FL DEPT OF ENV PRO 2015 (BPJ)

AF7687'RECOVERED AS DESCRIBED.



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National Geodetic Survey, Retrieval Date = JANUARY 6, 2016
AF7691 DESIGNATION - F014
AF7691 PID - AF7691
AF7691 STATE/COUNTY- FL/MARTIN
AF7691 COUNTRY - US
AF7691 USGS QUAD - INDIAN TOWN SE (1983)
AF7691
AF7691
                           *CURRENT SURVEY CONTROL
AF7691
AF7691* NAD 83(2011) POSITION- 27 01 46.31105(N) 080 15 45.76371(W) ADJUSTED
AF7691* NAD 83(2011) ELLIP HT- -20.911 (meters)
                                                 (06/27/12) ADJUSTED
AF7691* NAD 83(2011) EPOCH - 2010.00
AF7691* NAVD 88 ORTHO HEIGHT - 6.204 (meters) 20.35 (feet) ADJUSTED
AF7691
AF7691 NAD 83(2011) X - 961,573.309 (meters)
                                                             COMP
AF7691 NAD 83(2011) Y - -5,603,475.580 (meters)
                                                             COMP
AF7691 NAD 83(2011) Z - 2,881,121.179 (meters)
                                                             COMP
AF7691 LAPLACE CORR -
                        -2.85 (seconds)
                                                             DEFLEC12B
                            -27.109 (meters)
AF7691 GEOID HEIGHT
                                                             GEOID12B
                             6.195 (meters)
AF7691 DYNAMIC HEIGHT -
                                                20.32 (feet) COMP
AF7691 MODELED GRAVITY - 979,101.6 (mgal)
                                                             NAVD 88
AF7691
AF7691 VERT ORDER - FIRST CLASS II
AF7691
AF7691 Network accuracy estimates per FGDC Geospatial Positioning Accuracy
AF7691 Standards:
AF7691
       FGDC (95% conf, cm) Standard deviation (cm)
                                                         CorrNE
AF7691
             Horiz Ellip
                                 SD N SD E SD h
AF7691 ------
AF7691 NETWORK
               1.12 2.16
                                  0.51 0.39 1.10 -0.04039250
AF7691 -----
AF7691 Click here for local accuracies and other accuracy information.
AF7691
AF7691
AF7691. The horizontal coordinates were established by GPS observations
AF7691.and adjusted by the National Geodetic Survey in June 2012.
AF7691.NAD 83(2011) refers to NAD 83 coordinates where the reference
AF7691.frame has been affixed to the stable North American tectonic plate. See
AF7691.NA2011 for more information.
AF7691. The horizontal coordinates are valid at the epoch date displayed above
AF7691.which is a decimal equivalence of Year/Month/Day.
AF7691. The orthometric height was determined by differential leveling and
AF7691.adjusted by the NATIONAL GEODETIC SURVEY
AF7691.in September 2013.
AF7691. Significant digits in the geoid height do not necessarily reflect accuracy.
AF7691.GEOID12B height accuracy estimate available here.
AF7691
AF7691. The X, Y, and Z were computed from the position and the ellipsoidal ht.
AF7691
AF7691. The Laplace correction was computed from DEFLEC12B derived deflections.
AF7691. The ellipsoidal height was determined by GPS observations
AF7691.and is referenced to NAD 83.
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AF7691
AF7691. The dynamic height is computed by dividing the NAVD 88
AF7691.geopotential number by the normal gravity value computed on the
AF7691. Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
AF7691.degrees latitude (g = 980.6199 \text{ gals.}).
AF7691
AF7691. The modeled gravity was interpolated from observed gravity values.
AF7691
AF7691. The following values were computed from the NAD 83(2011) position.
AF7691
AF7691;
                                                  Units Scale Factor Converg.
                           North
                                         East
                                                                     +0 20 06.3
AF7691; SPC FL E
                        298,889.904
                                      273,157.190
                                                  MT 1.00000722
                    - 980,607.96
                                                   sFT
                                                        1.00000722
                                                                     +0 20 06.3
AF7691; SPC FL E
                                      896,183.21
AF7691;UTM 17
                    - 2,989,919.905
                                      573,132.229
                                                       0.99966602
                                                                     +0 20 06.3
                                                  MT
AF7691
AF7691!
                    - Elev Factor x Scale Factor =
                                                        Combined Factor
AF7691!SPC FL E
                    - 1.00000329 x
                                      1.00000722 =
                                                        1.00001051
                   - 1.00000329 x
AF7691!UTM 17
                                       0.99966602 =
                                                       0.99966930
AF7691
AF7691
                                SUPERSEDED SURVEY CONTROL
AF7691
AF7691 NAD 83(2007) - 27 01 46.31121(N)
                                            080 15 45.76472(W) AD(2002.00) 0
AF7691 ELLIP H (02/10/07)
                           -20.902 (m)
                                                               GP(2002.00)
                                            080 15 45.76496(W) AD(
AF7691 NAD 83(1999) - 27 01 46.31129(N)
                                                                         ) 1
AF7691 ELLIP H (06/19/01) -20.895 (m)
                                                                         ) 4 1
                                                               GP(
AF7691 NAD 83(1990) - 27 01 46.31031(N)
                                            080 15 45.76406(W) AD(
                                                                         ) 1
AF7691 ELLIP H (03/30/94) -20.840
                                     (m)
                                                               GP (
                                          GEOID99 model used
AF7691 NAVD 88 (09/27/01)
                              6.2
                                     (m)
                                                               GPS OBS
AF7691 NAVD 88 (03/30/94)
                              6.2
                                     (m)
                                          GEOID93 model used
                                                               GPS OBS
AF7691
AF7691. Superseded values are not recommended for survey control.
AF7691
AF7691.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.
AF7691.See file dsdata.txt to determine how the superseded data were derived.
AF7691
AF7691 U.S. NATIONAL GRID SPATIAL ADDRESS: 17RNK7313289919(NAD 83)
AF7691
AF7691 MARKER: F = FLANGE-ENCASED ROD
AF7691 SETTING: 50 = ALUMINUM ALLOY ROD W/O SLEEVE (10 FT.+)
AF7691 STAMPING: F014 1992
AF7691 MARK LOGO: NGS
AF7691 PROJECTION: FLUSH
AF7691 MAGNETIC: N = NO MAGNETIC MATERIAL
AF7691 STABILITY: B = PROBABLY HOLD POSITION/ELEVATION WELL
AF7691 SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
AF7691+SATELLITE: SATELLITE OBSERVATIONS - August 04, 2011
AF7691 ROD/PIPE-DEPTH: 11.3 meters
AF7691
AF7691 HISTORY
                    - Date
                               Condition
                                                Report By
AF7691 HISTORY
                    - 1992
                               MONUMENTED
                                                KEISCH
AF7691 HISTORY
                    - 20010730 GOOD
                                                GCYI
AF7691 HISTORY
                   - 20010730 GOOD
                                                GCYI
AF7691 HISTORY
                    - 20110804 GOOD
                                                FLDEP
AF7691
AF7691
                                STATION DESCRIPTION
AF7691
AF7691'DESCRIBED BY KEITH AND SCHNARS - LAKELAND 1992
AF7691'THE STATION IS LOCATED ABOUT 9 MI (14.5 KM) WEST OF HOBE SOUND IN THE
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- AF7691'EAST RIGHT-OF-WAY OF C.R. 711 IN SECTION 5, TOWNSHIP 40 SOUTH, RANGE AF7691'41 EAST, MARTIN COUNTY, FLORIDA.
- AF7691'TO REACH THE STATION FROM THE INTERSECTION OF I-95 AND C.R. 708, WEST
- AF7691'OF HOBE SOUND, GO WEST ON C.R. 708 FOR 2.3 MI (3.7 KM) TO THE
- AF7691'INTERSECTION WITH C.R. 711. TURN LEFT AND GO SOUTH ON C.R. 711 FOR
- AF7691'2.1 MI (3.4 KM) TO THE STATION ON THE LEFT. THE STATION LIES BETWEEN
- AF7691'TWO DRAINAGE DITCHES TO THE EAST, 45.8 FT (14.0 M) EAST OF THE EAST
- AF7691'EDGE OF PAVEMENT, 61.9 FT (18.9 M) SOUTH OF A FENCE CORNER AND GATE,
- AF7691'46.7 FT (14.2 M) NORTH OF A WOOD POWER POLE, AND 17.8 FT (5.4 M)
- AF7691'NORTHWEST OF A CARSONITE WITNESS POST.
- AF7691'ACCESS TO THE DATUM POINT--THE STATION IS RECESSED INSIDE A NGS LOGO
- AF7691'CAP MOUNTED ON A 5 INCH DIAMETER PVC PIPE SET IN A CONCRETE COLLAR
- AF7691'SET FLUSH WITH THE GROUND.
- AF7691'REFERENCES--
- AF7691'KEITH AND SCHNARS NAIL AND DISC, SET AT THE EDGE OF PAVEMENT, MAGNETIC
- AF7691'AZIMUTH OF 259 DEGREES AT 48.36 FT (14.74 M) .
- AF7691'KEITH AND SCHNARS NAIL AND DISC, SET AT THE EDGE OF PAVEMENT, MAGNETIC
- AF7691'AZIMUTH OF 308 DEGREES AT 56.20 FT (17.13 M)
- AF7691'KEITH AND SCHNARS NAIL AND DISC, SET IN WOOD FENCE CORNER, MAGNETIC
- AF7691'AZIMUTH OF 18 DEGREES AT 61.89 FT (18.86 M) .
- AF7691'KEITH AND SCHNARS NAIL AND DISC, SET IN WOOD POWER POLE, MAGNETIC
- AF7691'AZIMUTH OF 178 DEGREES AT 46.67 FT (14.23 M) .
- AF7691'SET CARSONITE WITNESS POST, 17.8 FT (5.4 M) SOUTHEAST.
- AF7691
- AF7691 STATION RECOVERY (2001)
- AF7691
- AF7691'RECOVERY NOTE BY G.C.Y., INCORPORATED 2001 (PA)
- AF7691'RECOVERED IN GOOD CONDITION.
- AF7691
- AF7691 STATION RECOVERY (2001)
- AF7691
- AF7691'RECOVERY NOTE BY G.C.Y., INCORPORATED 2001 (DI)
- AF7691'RECOVERY NOTE BY CREECH ENGINEERS, INCORPORATED. MELBOURNE 2006
- AF7691'(DTB) RECOVERED AS DESCRIBED.
- AF7691
- AF7691 STATION RECOVERY (2011)
- AF7691
- AF7691'RECOVERY NOTE BY FL DEPT OF ENV PRO 2011 (DLP)
- AF7691'RECOVERED AS DESCRIBED.



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National Geodetic Survey, Retrieval Date = JANUARY 6, 2016
AD8712 DESIGNATION - F018
AD8712 PID - AD8712
AD8712 STATE/COUNTY- FL/MARTIN
AD8712 COUNTRY - US
AD8712 USGS QUAD - JUPITER (1983)
AD8712
AD8712
                           *CURRENT SURVEY CONTROL
AD8712
AD8712* NAD 83(2011) POSITION- 26 58 44.63778(N) 080 05 24.72802(W) ADJUSTED
AD8712* NAD 83(2011) ELLIP HT- -24.355 (meters)
                                                (06/27/12) ADJUSTED
AD8712* NAD 83(2011) EPOCH - 2010.00
AD8712* NAVD 88 ORTHO HEIGHT - 3.181 (meters) 10.44 (feet) ADJUSTED
AD8712
AD8712 NAD 83(2011) X - 978,876.655 (meters)
                                                             COMP
AD8712 NAD 83(2011) Y - -5,603,053.048 (meters)
                                                             COMP
AD8712 NAD 83(2011) Z - 2,876,137.599 (meters)
                                                             COMP
AD8712 LAPLACE CORR -
                        -4.61 (seconds)
                                                             DEFLEC12B
                            -27.536 (meters)
AD8712 GEOID HEIGHT
                                                             GEOID12B
                             3.176 (meters)
AD8712 DYNAMIC HEIGHT -
                                               10.42 (feet) COMP
AD8712 MODELED GRAVITY - 979,091.9 (mgal)
                                                            NAVD 88
AD8712
AD8712 VERT ORDER - SECOND CLASS I
AD8712
AD8712 Network accuracy estimates per FGDC Geospatial Positioning Accuracy
AD8712 Standards:
AD8712 FGDC (95% conf, cm) Standard deviation (cm)
                                                         CorrNE
AD8712
             Horiz Ellip
                                 SD N SD E SD h
AD8712 -----
AD8712 NETWORK
               1.39 2.82
                                  0.60 0.53 1.44 0.10710892
AD8712 -----
AD8712 Click here for local accuracies and other accuracy information.
AD8712
AD8712
AD8712. The horizontal coordinates were established by GPS observations
AD8712.and adjusted by the National Geodetic Survey in June 2012.
AD8712.NAD 83(2011) refers to NAD 83 coordinates where the reference
AD8712.frame has been affixed to the stable North American tectonic plate. See
AD8712.NA2011 for more information.
AD8712. The horizontal coordinates are valid at the epoch date displayed above
AD8712.which is a decimal equivalence of Year/Month/Day.
AD8712. The orthometric height was determined by differential leveling and
AD8712.adjusted by the NATIONAL GEODETIC SURVEY
AD8712.in June 2011.
AD8712
AD8712. Significant digits in the geoid height do not necessarily reflect accuracy.
AD8712.GEOID12B height accuracy estimate available here.
AD8712
AD8712.Photographs are available for this station.
AD8712. The X, Y, and Z were computed from the position and the ellipsoidal ht.
AD8712
AD8712. The Laplace correction was computed from DEFLEC12B derived deflections.
AD8712
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AD8712. The ellipsoidal height was determined by GPS observations
AD8712.and is referenced to NAD 83.
AD8712. The dynamic height is computed by dividing the NAVD 88
AD8712.geopotential number by the normal gravity value computed on the
AD8712. Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
AD8712.degrees latitude (g = 980.6199 \text{ gals.}).
AD8712
AD8712. The modeled gravity was interpolated from observed gravity values.
AD8712. The following values were computed from the NAD 83(2011) position.
AD8712
AD8712;
                           North
                                         East
                                                  Units Scale Factor Converg.
AD8712;SPC FL E
                                                                     +0 24 46.0
                        293,409.958
                                      290,315.530
                                                  MT 1.00004184
                        962,629.17
AD8712; SPC FL E
                                      952,476.87
                                                   sFT 1.00004184
                                                                   +0 24 46.0
AD8712;UTM 17
                    - 2,984,441.830
                                      590,284.714
                                                  MT 0.99970063
                                                                     +0 24 46.0
AD8712
AD8712!
                    - Elev Factor x Scale Factor =
                                                        Combined Factor
AD8712!SPC FL E
                      1.00000383 x
                                       1.00004184 =
                                                        1.00004567
                       1.00000383 x
                                        0.99970063 =
AD8712!UTM 17
                                                        0.99970445
AD8712
AD8712
                                SUPERSEDED SURVEY CONTROL
AD8712
AD8712 NAD 83(2007) - 26 58 44.63834(N)
                                            080 05 24.72910(W) AD(2002.00) 0
AD8712 ELLIP H (02/10/07) -24.336 (m)
                                                               GP (2002.00)
AD8712 NAD 83(1999) - 26 58 44.63851(N)
                                            080 05 24.72943(W) AD(
AD8712 ELLIP H (06/19/01) -24.333
                                     (m)
                                                               GP (
                                                                         ) 4 1
AD8712 NAD 83(1990) - 26 58 44.63766(N)
                                         080 05 24.72836(W) AD(
                                                                         ) 1
AD8712 ELLIP H (03/30/94) -24.290
                                    (m)
                                                               GP (
                                                                         ) 3 2
AD8712 NAVD 88 (04/24/07)
                                         GEOID03 model used
                              3.2
                                     (m)
                                                               GPS OBS
AD8712 NAVD 88 (09/27/01)
                              3.2
                                         GEOID99 model used
                                     (m)
                                                               GPS OBS
AD8712 NAVD 88 (03/30/94)
                              3.2
                                          GEOID93 model used
                                                               GPS OBS
                                     (m)
AD8712
AD8712. Superseded values are not recommended for survey control.
AD8712
AD8712.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.
AD8712.See file dsdata.txt to determine how the superseded data were derived.
AD8712
AD8712 U.S. NATIONAL GRID SPATIAL ADDRESS: 17RNK9028484441(NAD 83)
AD8712
AD8712 MARKER: F = FLANGE-ENCASED ROD
AD8712 SETTING: 50 = ALUMINUM ALLOY ROD W/O SLEEVE (10 FT.+)
AD8712 STAMPING: F018 1992
AD8712 MARK LOGO: NGS
AD8712 PROJECTION: FLUSH
AD8712 MAGNETIC: N = NO MAGNETIC MATERIAL
AD8712 STABILITY: B = PROBABLY HOLD POSITION/ELEVATION WELL
AD8712 SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
AD8712+SATELLITE: SATELLITE OBSERVATIONS - August 21, 2012
AD8712 ROD/PIPE-DEPTH: 12.6 meters
AD8712
AD8712 HISTORY
                    - Date
                               Condition
                                                Report By
AD8712 HISTORY
                    - 1992
                              MONUMENTED
                                                KEISCH
AD8712 HISTORY
                    - 20010730 GOOD
                                                GCYI
AD8712 HISTORY
                    - 20010730 GOOD
                                                GCYT
AD8712 HISTORY
                    - 20031002 GOOD
                                                USPSOD
AD8712 HISTORY
                    - 20051214 GOOD
                                                FLDEP
AD8712 HISTORY
                    - 20070411 GOOD
                                                LBFH
```



AD8712 HISTORY - 20091019 GOOD FLDT AD8712 HISTORY - 20120821 GOOD GCYI AD8712 AD8712 STATION DESCRIPTION AD8712 AD8712'DESCRIBED BY KEITH AND SCHNARS - LAKELAND 1992 AD8712'THE STATION IS LOCATED ABOUT 0.7 MI (1.1 KM) NORTH OF TEQUESTA IN THE AD8712'MEDIAN OF U.S. 1 IN SECTION 19, TOWNSHIP 40 SOUTH, RANGE 43 EAST, AD8712'MARTIN COUNTY, FLORIDA. AD8712'TO REACH THE STATION FROM THE INTERSECTION OF U.S. 1 AND COUNTY LINE AD8712'ROAD IN TEQUESTA, GO NORTH ON U.S. 1 FOR 0.7 MI (1.1 KM) TO THE AD8712'STATION IN THE MEDIAN. THE STATION LIES WEST OF THE BLOWING ROCKS AD8712'MARINA, 331 FT (100.9 M) NORTH OF THE BULLNOSE, 5.2 FT (1.6 M) NORTH AD8712'OF THE NORTH EDGE OF A CONCRETE MEDIAN, 4.6 FT (1.4 M) WEST OF THE AD8712'WEST EDGE OF PAVEMENT OF THE NORTHBOUND LANE OF U.S. 1, AND 5.0 FT AD8712'(1.5 M) NORTH OF A CARSONITE WITNESS POST. AD8712'ACCESS TO THE DATUM POINT--THE STATION IS RECESSED INSIDE A NGS LOGO AD8712'CAP MOUNTED ON A 5 INCH DIAMETER PVC PIPE SET IN A CONCRETE COLLAR AD8712'SET FLUSH WITH THE GROUND. AD8712'REFEREEENCES--AD8712'FOUND NAIL AND DISC, SET IN 6 FOOT SQUARE PAINTED AERIAL TARGET, AD8712'MAGNETIC AZIMUTH OF 348 DEGREES AT 141.18 FT (43.03 M) . AD8712'X-CUT, SET IN CONCRETE CURB, MAGNETIC AZIMUTH OF 78 DEGREES AT 2.96 FT AD8712'(0.90 M) . AD8712'X-CUT, SET IN CONCRETE MEDIAN, MAGNETIC AZIMUTH OF 173 DEGREES AT AD8712'23.34 FT (7.11 M) . AD8712'X-CUT, SET IN CONCRETE CURB, MAGNETIC AZIMUTH OF 261 DEGREES AT 2.78 AD8712'FT (0.85 M) . AD8712'SET CARSONITE WITNESS POST, 5.0 FT (1.5 M) SOUTH. AD8712 AD8712 STATION RECOVERY (2001) AD8712 AD8712'RECOVERY NOTE BY G.C.Y., INCORPORATED 2001 (PA) AD8712'RECOVERED IN GOOD CONDITION. AD8712 AD8712 STATION RECOVERY (2001) AD8712 AD8712'RECOVERY NOTE BY G.C.Y., INCORPORATED 2001 (DI) AD8712'RECOVERY NOTE BY CREECH ENGINEERS, INCORPORATED. - MELBOURNE 2006 AD8712'(DTB) RECOVERED AS DESCRIBED AD8712 AD8712 AD8712 STATION RECOVERY (2012) AD8712'RECOVERY NOTE BY G.C.Y., INCORPORATED 2012 (PA)

AD8712'RECOVERED AS DESCRIBED.



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National Geodetic Survey, Retrieval Date = JANUARY 6, 2016
AJ5265 DESIGNATION - GCY D23
AJ5265 PID - AJ5265
AJ5265 STATE/COUNTY- FL/MARTIN
AJ5265 COUNTRY - US
AJ5265 USGS QUAD - ST LUCIE INLET (1983)
AJ5265
AJ5265
                           *CURRENT SURVEY CONTROL
AJ5265
AJ5265* NAD 83(2011) POSITION- 27 13 24.56776(N) 080 13 12.85900(W) ADJUSTED
AJ5265* NAD 83(2011) ELLIP HT- -22.538 (meters)
                                                 (06/27/12) ADJUSTED
AJ5265* NAD 83(2011) EPOCH - 2010.00
AJ5265* NAVD 88 ORTHO HEIGHT - 5.085 (meters) 16.68 (feet) ADJUSTED
AJ5265
AJ5265 NAD 83(2011) X - 964,062.145 (meters)
                                                              COMP
AJ5265 NAD 83(2011) Y - -5,593,102.880 (meters)
                                                              COMP
AJ5265 NAD 83(2011) Z - 2,900,248.158 (meters)
                                                              COMP
AJ5265 LAPLACE CORR -
                           -3.12 (seconds)
                                                              DEFLEC12B
AJ5265 GEOID HEIGHT
                             -27.623 (meters)
                                                              GEOID12B
AJ5265 DYNAMIC HEIGHT -
                             5.077 (meters)
                                                16.66 (feet) COMP
AJ5265 MODELED GRAVITY - 979,119.2 (mgal)
                                                             NAVD 88
AJ5265
AJ5265 VERT ORDER - SECOND CLASS I
AJ5265
\mbox{AJ}5265 Network accuracy estimates per FGDC Geospatial Positioning Accuracy \mbox{AJ}5265 Standards:
AJ5265 FGDC (95% conf, cm) Standard deviation (cm)
                                                          CorrNE
AJ5265
             Horiz Ellip
                                  SD N SDE SD h
AJ5265 -----
AJ5265 NETWORK 0.72 2.45
                                   0.30 0.29 1.25 -0.01079313
AJ5265 -----
AJ5265 Click here for local accuracies and other accuracy information.
AJ5265
AJ5265
AJ5265. The horizontal coordinates were established by GPS observations
AJ5265.and adjusted by the National Geodetic Survey in June 2012.
AJ5265.NAD 83(2011) refers to NAD 83 coordinates where the reference
AJ5265.frame has been affixed to the stable North American tectonic plate. See
AJ5265.NA2011 for more information.
AJ5265. The horizontal coordinates are valid at the epoch date displayed above
AJ5265.which is a decimal equivalence of Year/Month/Day.
AJ5265. The orthometric height was determined by differential leveling and
AJ5265.adjusted by the NATIONAL GEODETIC SURVEY
AJ5265.in August 2002.
AJ5265
AJ5265. Significant digits in the geoid height do not necessarily reflect accuracy.
AJ5265.GEOID12B height accuracy estimate available here.
AJ5265
AJ5265. The X, Y, and Z were computed from the position and the ellipsoidal ht.
AJ5265
AJ5265. The Laplace correction was computed from DEFLEC12B derived deflections.
AJ5265
AJ5265. The ellipsoidal height was determined by GPS observations
AJ5265.and is referenced to NAD 83.
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AJ5265
AJ5265. The dynamic height is computed by dividing the NAVD 88
AJ5265.geopotential number by the normal gravity value computed on the
AJ5265. Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
AJ5265.degrees latitude (g = 980.6199 \text{ gals.}).
AJ5265
AJ5265. The modeled gravity was interpolated from observed gravity values.
AJ5265
AJ5265. The following values were computed from the NAD 83(2011) position.
AJ5265
                                       East Units Scale Factor Converg.
AJ5265;
                         North
AJ5265;SPC FL E - 320,407.028 277,238.393 MT 1.00001479 +0 21 24.2

AJ5265;SPC FL E - 1,051,202.06 909,572.96 sFT 1.00001479 +0 21 24.2

AJ5265;UTM 17 - 3,011,429.688 577,212.040 MT 0.99967359 +0 21 24.2
AJ5265
AJ5265!
                  - Elev Factor x Scale Factor = Combined Factor
AJ5265!SPC FL E - 1.00000354 \times 1.00001479 = 1.00001833
AJ5265!UTM 17
                  - 1.00000354 x 0.99967359 = 0.99967713
AJ5265
                     Primary Azimuth Mark
AJ5265:
                                                                Grid Az
AJ5265:SPC FL E - GCY D22
AJ5265:UTM 17 - GCY D22
                                                                359 44 25.1
                                                                359 44 25.1
AJ5265 | ------
                                                  Distance Geod. Az |
AJ5265 | PID Reference Object
AJ52651
                                                                  dddmmss.s |
                                                APPROX. 0.7 KM 0000549.3 |
AJ5265 | AJ5264 GCY D22
AJ5265 | ------
AJ5265
AJ5265
                                SUPERSEDED SURVEY CONTROL
AJ5265
AJ5265 NAD 83(2007) - 27 13 24.56800(N) 080 13 12.85988(W) AD(2002.00) 0
AJ5265 ELLIP H (02/10/07) -22.518 (m) GP(2002.00)
AJ5265 NAD 83(1999) - 27 13 24.56806(N) 080 13 12.86006(W) AD( ) 1
AJ5265 ELLIP H (09/27/01) -22.495 (m)
                                                               GP(
                                                                        ) 4 2
AJ5265 NAVD 88 (09/27/01)
                             5.1 (m) GEOID99 model used GPS OBS
AJ5265. Superseded values are not recommended for survey control.
AJ5265
AJ5265.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.
AJ5265.See file dsdata.txt to determine how the superseded data were derived.
AJ5265
AJ5265 U.S. NATIONAL GRID SPATIAL ADDRESS: 17RNL7721211429 (NAD 83)
AJ5265 MARKER: DH = HORIZONTAL CONTROL DISK
AJ5265 SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT
AJ5265 STAMPING: GCY D23 2001
AJ5265 MARK LOGO: FL-085
AJ5265 PROJECTION: FLUSH
AJ5265 MAGNETIC: N = NO MAGNETIC MATERIAL
AJ5265 STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO
AJ5265+STABILITY: SURFACE MOTION
AJ5265 SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
AJ5265+SATELLITE: SATELLITE OBSERVATIONS - August 21, 2012
AJ5265
AJ5265 HISTORY - Date Condition
                                               Report By
                  - 20010509 MONUMENTED
AJ5265 HISTORY
                                              GCYI
                  - 20020408 GOOD
AJ5265 HISTORY
                                                GCYI
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AJ5265 HISTORY - 20091022 GOOD ESPPA AJ5265 HISTORY - 20120821 GOOD GCYI

AJ5265

AJ5265 STATION DESCRIPTION

AJ5265

AJ5265'DESCRIBED BY G.C.Y., INCORPORATED 2001 (MDL)

AJ5265'THE STATION IS LOCATED 2.5 KM (1.6 MI) SOUTHEAST OF JENSEN BEACH AND AJ5265'4.2 KM  $\,$ 

AJ5265'(2.6 MI) NORTHEAST OF STUART NEAR THE EAST RIGHT OF WAY OF DIXIE AJ5265'HIGHWAY

AJ5265'IN SECTION 26, TOWNSHIP 37 SOUTH, RANGE 41 EAST, MARTIN COUNTY, AJ5265'FLORIDA.

AJ5265'

AJ5265'TO REACH THE STATION FROM THE INTERSECTION OF JENSEN BEACH BOULEVARD

AJ5265'AND THE FLORIDA EAST COAST RAILWAY, GO EAST ON JENSEN BEACH BOULEVARD

 ${\tt AJ5265'0.23~KM}$  (0.14 MI) TO THE INTERSECTION WITH INDIAN RIVER DRIVE. THEN GO

AJ5265'SOUTHERLY ON INDIAN RIVER DRIVE 1.5 KM (0.9 MI) TO THE INTERSECTION

AJ5265'WITH

AJ5265'DIXIE HIGHWAY. THEN GO SOUTHERLY ALONG DIXIE HIGHWAY 1.1 KM (0.7 MI)

AJ5265'TO THE

AJ5265'STATION ON THE LEFT.

AJ5265'

AJ5265'STATION IS LOCATED NEAR THE NORTH SIDE OF A PLANTED TRAFFIC ISLAND 1.0 AJ5265'M

AJ5265'(3.2 FT) SOUTH OF THE SOUTH EDGE OF PAVEMENT AT THE NORTH SIDE OF THE

AJ5265'TRAFFIC ISLAND AND 13.05 M (42.8 FT) NORTH OF A CARSONITE WITNESS

AJ5265'POST.

AJ5265'REFERENCES -

AJ5265'GCY, INC. MAG NAIL AND WASHER IN SOUTH EDGE OF PAVEMENT AT NORTH SIDE

AJ5265'TRAFFIC ISLAND - 22 DEG. MAG. AZ. - 1.83 M (6.00 FT)

AJ5265'GCY, INC. MAG NAIL AND WASHER IN WEST EDGE OF PAVEMENT AT EAST SIDE OF

AJ5265'TRAFFIC ISLAND - 96 DEG. MAG. AZ. - 3.12 M (10.23 FT)

AJ5265'GCY, INC. MAG NAIL AND WASHER IN EAST EDGE OF PAVEMENT OF DIXIE

AJ5265'HIGHWAY -

AJ5265'249 DEG. MAG. AZ. - 11.26 M (36.94 FT)

AJ5265'GCY, INC. MAG NAIL AND WASHER IN EAST EDGE OF PAVEMENT OF DIXIE

AJ5265'HIGHWAY -

AJ5265'310 DEG. MAG. AZ. - 4.03M (13.23 FT)

AJ5265'

AJ5265'NOTE-

AJ5265'DEEP ONE MAGNET BURIED AT NORTH SIDE OF MONUMENT.

A.T5265

AJ5265 STATION RECOVERY (2012)

AJ5265

AJ5265'RECOVERY NOTE BY G.C.Y., INCORPORATED 2012 (PA)

AJ5265'RECOVERED AS DESCRIBED.



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National Geodetic Survey, Retrieval Date = JANUARY 6, 2016
DI8177 DESIGNATION - MCGPS1006
DI8177 PID - DI8177
DI8177 STATE/COUNTY- FL/MARTIN DI8177 COUNTRY - US
DI8177 USGS QUAD - WEST OF ROOD (1994)
DT8177
DI8177
                           *CURRENT SURVEY CONTROL
DI8177
DI8177* NAD 83(2011) POSITION- 26 57 27.74846(N) 080 17 14.38864(W) ADJUSTED
DI8177* NAD 83(2011) ELLIP HT- -20.028 (meters)
                                                 (06/27/12) ADJUSTED
DI8177* NAD 83(2011) EPOCH - 2010.00
DI8177* NAVD 88 ORTHO HEIGHT - 6.754 (meters) 22.16 (feet) ADJUSTED
DI8177
DI8177 NAD 83(2011) X - 959,775.129 (meters)
                                                              COMP
DI8177 NAD 83(2011) Y - -5,607,449.375 (meters)
                                                              COMP
DI8177 NAD 83(2011) Z - 2,874,030.368 (meters)
                                                              COMP
DI8177 LAPLACE CORR -
                            -2.77 (seconds)
                                                              DEFLEC12B
                            -26.773 (meters)
DI8177 GEOID HEIGHT
                                                             GEOID12B
DI8177 DYNAMIC HEIGHT -
                             6.743 (meters)
                                                22.12 (feet) COMP
DI8177 MODELED GRAVITY - 979,104.5 (mgal)
                                                             NAVD 88
DI8177
DI8177 VERT ORDER - FIRST CLASS II
DI8177
DI8177 Network accuracy estimates per FGDC Geospatial Positioning Accuracy
DI8177 Standards:
DI8177
       FGDC (95% conf, cm) Standard deviation (cm)
                                                         CorrNE
DI8177
             Horiz Ellip
                                  SD N SD E SD h
DI8177 -----
DI8177 NETWORK
               1.17 2.27
                                   0.52 0.43 1.16 0.05675467
DI8177 -----
DI8177 Click here for local accuracies and other accuracy information.
DI8177
DI8177
DI8177. The horizontal coordinates were established by GPS observations
DI8177.and adjusted by the National Geodetic Survey in June 2012.
DI8177.NAD 83(2011) refers to NAD 83 coordinates where the reference
DI8177.frame has been affixed to the stable North American tectonic plate. See
DI8177.NA2011 for more information.
DI8177. The horizontal coordinates are valid at the epoch date displayed above
DI8177.which is a decimal equivalence of Year/Month/Day.
DI8177. The orthometric height was determined by differential leveling and
DI8177.adjusted by the NATIONAL GEODETIC SURVEY
DI8177.in September 2013.
DI8177. Significant digits in the geoid height do not necessarily reflect accuracy.
DI8177.GEOID12B height accuracy estimate available here.
DI8177
DI8177. The X, Y, and Z were computed from the position and the ellipsoidal ht.
DI8177
DI8177. The Laplace correction was computed from DEFLEC12B derived deflections.
DI8177
DI8177. The ellipsoidal height was determined by GPS observations
DI8177.and is referenced to NAD 83.
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DI8177
DI8177. The dynamic height is computed by dividing the NAVD 88
DI8177.geopotential number by the normal gravity value computed on the
DI8177. Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
DI8177.degrees latitude (g = 980.6199 \text{ gals.}).
DI8177
DI8177. The modeled gravity was interpolated from observed gravity values.
DI8177
DI8177. The following values were computed from the NAD 83(2011) position.
DI8177
                                      East Units Scale Factor Converg.
                         North
DI8177;
DI8177;SPC FL E - 290,917.732 270,759.328 MT 1.00000296 +0 19 23.1 DI8177;SPC FL E - 954,452.59 888,316.23 sFT 1.00000296 +0 19 23.1 DI8177;UTM 17 - 2,981,950.454 570,735.185 MT 0.99966177 +0 19 23.1
DI8177
DI8177!
                  - Elev Factor x Scale Factor = Combined Factor
DI8177!SPC FL E - 1.00000315 x 1.00000296 = 1.00000611
DI8177!UTM 17
                  - 1.00000315 x 0.99966177 = 0.99966492
DI8177
                     Primary Azimuth Mark
DI8177:
                                                               Grid Az
DI8177:SPC FL E - MCGPS1007
DI8177:UTM 17 - MCGPS1007
                                                               000 08 02.4
                                                               000 08 02.4
DI8177|------|
                                                              Geod. Az
DI8177 | PID Reference Object
                                                  Distance
DI8177|
                                                                 dddmmss.s |
DI8177| DI8180 MCGPS1007
                                                APPROX. 1.0 KM 0002725.5 |
DI8177|------
DI8177
DI8177
                               SUPERSEDED SURVEY CONTROL
DI8177
DI8177 NAD 83(2007) - 26 57 27.74862(N) 080 17 14.38967(W) AD(2002.00) 1
DI8177 ELLIP H (05/01/09) -20.015 (m) GP(2002.00) 4
DI8177 NAD 83(1999) - 26 57 27.74873(N) 080 17 14.38959(W) AD( ) 1
                                                              GP(2002.00) 4 2
DI8177 ELLIP H (04/24/07) -20.006 (m)
                                                                       ) 4 2
                                                              GP(
DI8177 NAVD 88 (04/24/07)
                            6.7 (m) GEOID03 model used GPS OBS
DI8177.Superseded values are not recommended for survey control.
DI8177.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.
DI8177. See file dsdata.txt to determine how the superseded data were derived.
DI8177
DI8177 U.S. NATIONAL GRID SPATIAL ADDRESS: 17RNK7073581950 (NAD 83)
DI8177 MARKER: F = FLANGE-ENCASED ROD
DI8177 SETTING: 50 = ALUMINUM ALLOY ROD W/O SLEEVE (10 FT.+)
DI8177 STAMPING: MCGPS1006 2004
DI8177 MARK LOGO: NONE
DI8177 PROJECTION: RECESSED 13 CENTIMETERS
DI8177 MAGNETIC: B = BAR MAGNET IMBEDDED IN MONUMENT
DI8177 STABILITY: B = PROBABLY HOLD POSITION/ELEVATION WELL
DI8177 SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
DI8177+SATELLITE: SATELLITE OBSERVATIONS - August 04, 2011
DI8177 ROD/PIPE-DEPTH: 10.7 meters
DI8177
DI8177 HISTORY - Date Condition
                                              Report By
DI8177 HISTORY
                  - 20040526 MONUMENTED
                                              CREEI
DI8177 HISTORY
                  - 20081104 GOOD
                                               INDIV
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DI8177 HISTORY - 20110804 GOOD FLDEP DI8177

DI8177 STATION DESCRIPTION

DI8177

DI8177'DESCRIBED BY CREECH ENGINEERS INC 2004

DI8177'RECOVERY NOTE BY CREECH ENGINEERS, INCORPORATED. - MELBOURNE 2006

DI8177'(DTB) THE STATION IS LOCATED 15.76 MI (25.36 KM) SOUTH OF THE STUART

DI8177'MUNICIPAL AIRPORT AND SOUTH OF THE TOWN OF STUART.

DI8177'

DI8177'TO REACH THE STATION FROM THE INTERSECTION OF COUNTY ROAD 708 (BRIDGE

DI8177'ROAD) AND COUNTY ROAD 711 (PRATT-WHITNEY ROAD) WEST OF THE TOWN OF

DI8177'HOBE SOUND. GO SOUTH ON COUNTY ROAD 711 FOR 6.51 MI (10.47 KM) TO

DI8177'JUST NORTH OF THE COUNTY LINE FOR MARTIN AND PALM BEACH AND THE

DI8177'STATION ON THE LEFT. 31.80 FT (9.69 M) EAST OF THE CENTERLINE OF

DI8177'COUNTY ROAD 711.

DI8177'

DI8177'THE STATION IS AN ALUMINUM ALLOY ROD DRIVEN INTO THE GROUND TO REFUSAL

DI8177'WITH A LOGO CAP STAMPED ---MCGPS 1006 2004---THAT IS 1.10 FT (34 CM)

DI8177'BELOW GROUND AND THE STATION IS RECESSED 0.50 FT (15 CM) BELOW THE

DI8177'LOGO CAP. NOTE THE HORIZONTAL CONTROL POINT IS A PUNCH MARK ON THE

DI8177'ALUMINUM ALLOY ROD THAT IS ACCESSED THROUGH A 5-1/2 INCH (13 CM)

DI8177'ACCESS COVER. NO CARSONITE WITNESS POST SET.

T8177

DI8177'REFERENCES-- SET MAG NAIL AND DISK --- REFERENCE. PT. LB 6705 --- IN

DI8177'THE EAST EDGE OF PAVEMENT OF COUNTY ROAD 711 ON A MAGNETIC AZIMUTH OF

DI8177'231 DEGREES AT A DISTANCE OF 27.75 FT (8.46 M). SET MAG NAIL AND DISK

DI8177'--- REFERENCE. PT. LB 6705 --- IN THE EAST EDGE OF PAVEMENT OF

DI8177'COUNTY ROAD 711 ON A MAGNETIC AZIMUTH OF 313 DEGREES AT A DISTANCE OF

DI8177'35.45 FT (10.81 M). SET 5/8 INCH (13 CM) IRON ROD AND CAP ---

DI8177'REFERENCE LB 6705 --- ON A MAGNETIC AZIMUTH OF 44 DEGREES AT A

DI8177'DISTANCE OF 20.05 FT (6.11 M). SET 5/8 INCH (13 CM) IRON ROD AND CAP

DI8177'--- REFERENCE LB 6705 --- ON A MAGNETIC AZIMUTH OF 141 DEGREES AT A

DI8177'DISTANCE OF 26.60 FT (8.11 M).

DI8177

DI8177 STATION RECOVERY (2008)

DI8177

DI8177'RECOVERY NOTE BY INDIVIDUAL CONTRIBUTORS 2008 (CGA)

DI8177'FOUND AS DESCRIBED, CALVIN, GIORDANO AND ASSOCIATES WEST PALM BEACH

DI8177

DI8177 STATION RECOVERY (2011)

DI8177

DI8177'RECOVERY NOTE BY FL DEPT OF ENV PRO 2011 (DLP)

DI8177'RECOVERED AS DESCRIBED.



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National Geodetic Survey, Retrieval Date = JANUARY 6, 2016
AJ8248 DESIGNATION - N 522
AJ8248 PID - AJ8248
AJ8248 STATE/COUNTY- FL/MARTIN
AJ8248 COUNTRY - US
AJ8248 USGS QUAD - INDIAN TOWN SE (1983)
AJ8248
AJ8248
                           *CURRENT SURVEY CONTROL
AJ8248
AJ8248* NAD 83(2011) POSITION- 27 02 21.33042(N) 080 22 26.67378(W) ADJUSTED
AJ8248* NAD 83(2011) ELLIP HT- -19.235 (meters)
                                                (06/27/12) ADJUSTED
AJ8248* NAD 83(2011) EPOCH - 2010.00
AJ8248* NAVD 88 ORTHO HEIGHT - 7.660 (meters) 25.13 (feet) ADJUSTED
AJ8248
AJ8248 NAD 83(2011) X - 950,598.539 (meters)
                                                             COMP
AJ8248 NAD 83(2011) Y - -5,604,852.430 (meters)
                                                             COMP
AJ8248 NAD 83(2011) Z - 2,882,082.022 (meters)
                                                             COMP
AJ8248 LAPLACE CORR -
                            -1.88 (seconds)
                                                             DEFLEC12B
                            -26.900 (meters)
AJ8248 GEOID HEIGHT
                                                             GEOID12B
                             7.649 (meters)
AJ8248 DYNAMIC HEIGHT -
                                                25.10 (feet) COMP
AJ8248 MODELED GRAVITY - 979,098.2 (mgal)
                                                             NAVD 88
AJ8248
AJ8248 VERT ORDER - FIRST CLASS II
AJ8248
AJ8248 Network accuracy estimates per FGDC Geospatial Positioning Accuracy
AJ8248 Standards:
AJ8248 FGDC (95% conf, cm) Standard deviation (cm)
                                                         CorrNE
AJ8248
             Horiz Ellip
                                 SD N SD E SD h
AJ8248 -----
AJ8248 NETWORK
               3.86 5.14
                                  1.53 1.59 2.62 -0.28320600
AJ8248 -----
AJ8248 Click here for local accuracies and other accuracy information.
AJ8248
AJ8248
AJ8248. The horizontal coordinates were established by GPS observations
AJ8248.and adjusted by the National Geodetic Survey in June 2012.
AJ8248.NAD 83(2011) refers to NAD 83 coordinates where the reference
AJ8248.frame has been affixed to the stable North American tectonic plate. See
AJ8248.NA2011 for more information.
AJ8248. The horizontal coordinates are valid at the epoch date displayed above
AJ8248.which is a decimal equivalence of Year/Month/Day.
AJ8248. The orthometric height was determined by differential leveling and
AJ8248.adjusted by the NATIONAL GEODETIC SURVEY
AJ8248.in April 2002.
AJ8248
AJ8248. Significant digits in the geoid height do not necessarily reflect accuracy.
AJ8248.GEOID12B height accuracy estimate available here.
AJ8248
AJ8248. The X, Y, and Z were computed from the position and the ellipsoidal ht.
AJ8248
AJ8248. The Laplace correction was computed from DEFLEC12B derived deflections.
AJ8248
AJ8248. The ellipsoidal height was determined by GPS observations
AJ8248.and is referenced to NAD 83.
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AJ8248
AJ8248. The dynamic height is computed by dividing the NAVD 88
AJ8248.geopotential number by the normal gravity value computed on the
AJ8248. Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
AJ8248.degrees latitude (g = 980.6199 \text{ gals.}).
AJ8248
AJ8248. The modeled gravity was interpolated from observed gravity values.
AJ8248
AJ8248. The following values were computed from the NAD 83(2011) position.
AJ8248
AJ8248;
                                                Units Scale Factor Converg.
                           North
                                         East
AJ8248; SPC FL E
                        299,907.992
                                      262,101.501
                                                  MT 0.99998877
                                                                     +0 17 04.4
                    - 983,948.14
                                                  sFT
                                                                     +0 17 04.4
AJ8248; SPC FL E
                                      859,911.34
                                                        0.99998877
AJ8248;UTM 17
                    - 2,990,937.646
                                    562,080.312 MT 0.99964758
                                                                     +0 17 04.4
AJ18248
AJ8248!
                    - Elev Factor x Scale Factor =
                                                        Combined Factor
AJ8248!SPC FL E
                   - 1.00000302 x 0.99998877 =
                                                      0.99999179
AJ8248!UTM 17
                  - 1.00000302 x
                                       0.99964758 =
                                                      0.99965060
AJ8248
AJ8248
                                SUPERSEDED SURVEY CONTROL
AJ8248
AJ8248 NAD 83(2007) - 27 02 21.33056(N)
                                           080 22 26.67453(W) AD(2002.00) 0
AJ8248 ELLIP H (02/10/07) -19.218 (m)
                                                               GP (2002.00)
                                                                        ) 1
AJ8248 NAD 83(1999) - 27 02 21.33069(N)
                                         080 22 26.67481(W) AD(
AJ8248 ELLIP H (12/12/02) -19.211 (m)
                                                               GP(
                                                                         ) 3 1
AJ8248 NAVD 88 (12/12/02)
                             7.66
                                     (m)
                                                   25.1
                                                           (f) LEVELING
AJ8248
AJ8248. Superseded values are not recommended for survey control.
AJ8248.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.
AJ8248. See file dsdata.txt to determine how the superseded data were derived.
AJ8248
AJ8248 U.S. NATIONAL GRID SPATIAL ADDRESS: 17RNK6208090937 (NAD 83)
AJ8248
AJ8248 MARKER: DD = SURVEY DISK
AJ8248 SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT
AJ8248 STAMPING: N 522 2001 CERP
AJ8248 MARK LOGO: USE
AJ8248 PROJECTION: RECESSED 20 CENTIMETERS
AJ8248 MAGNETIC: O = OTHER; SEE DESCRIPTION
AJ8248 STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO
AJ8248+STABILITY: SURFACE MOTION
AJ8248 SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
AJ8248+SATELLITE: SATELLITE OBSERVATIONS - April 24, 2002
AJ8248
AJ8248 HISTORY
                    - Date
                              Condition
                                                Report By
AJ8248 HISTORY
                    - 20010904 MONUMENTED
                                                FOST
AJ8248 HISTORY
                   - 20020424 GOOD
                                                MAPTEC
AJ8248
AJ8248
                                STATION DESCRIPTION
AJ8248
AJ8248'DESCRIBED BY CHARLEY FOSTER AND ASSOCIATES 2001 (JB)
AJ8248'THE MONUMENT IS LOCATED 5.0 MILES (8.05 KM) EAST OF INDIANTOWN, FL.
AJ8248'AND 8.9 MILES (14.32 KM) WEST OF THE
AJ8248'I-95 AND STATE ROAD 76 INTERCHANGE SOUTHWEST OF STUART, FL., SECTION
AJ8248'31, TOWNSHIP 39 SOUTH,
AJ8248'RANGE 40 EAST.
AJ8248'
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AJ8248'OWNERSHIP IS FLORIDA DEPARTMENT OF TRANSPORTATION.

AJ8248'

AJ8248'TO REACH MONUMENT FROM THE JUNCTION OF THE STATE ROAD 710 RAMP AND

AJ8248'STATE ROAD 76 IN

AJ8248'INDIANTOWN, GO EAST 5.0 MILES (8.05 KM) ALONG STATE ROAD 76 TO THE

AJ8248'MONUMENT LOCATION ON THE

AJ8248'NORTH (LEFT) SIDE OF THE ROAD IN THE RIGHT OF WAY. THE MONUMENT

AJ8248'LOCATION IS A CONCRETE POST SET

AJ8248'39.2 FEET (11.95 M) SOUTHWEST OF THE EAST GATE POST OF THE WESTERN

AJ8248'MOST ENTRANCE OF A NURSERY

AJ8248'AT 8775 SW KANNER ROAD (STATE ROAD 76).

AJ8248'

AJ8248'THE MONUMENT IS 48.6 FEET (14.81 M) NORTH OF THE CENTERLINE OF THE

AJ8248'ROAD, 37.0 FEET (11.28 M) SOUTH OF

AJ8248'A POWER POLE WITH GUY WIRE ON THE WEST SIDE OF ENTRANCE GATE AND 85.8

AJ8248'FEET (26.15 M) WEST OF THE

AJ8248'WEST END OF A DRIVEWAY CULVERT (8775 SW KANNER ROAD (STATE ROAD 76)).

AJ8248'NOTE A MAGNET WAS BURIED

AJ8248'NEARBY AT AN UNSPECIFIED POSITION.

AJ8248'

AJ8248

AJ8248 STATION RECOVERY (2002)

AJ8248

AJ8248'TO REACH MONUMENT FROM THE JUNCTION OF THE STATE ROAD 710 RAMP AND

AJ8248'STATE ROAD 76 IN

AJ8248'INDIANTOWN, GO EAST 5.0 MILES (8.05 KM) ALONG STATE ROAD 76 TO THE

AJ8248'MONUMENT LOCATION ON

AJ8248'THE

AJ8248'NORTH (LEFT) SIDE OF THE ROAD IN THE RIGHT OF WAY. THE MONUMENT

AJ8248'LOCATION IS A CONCRETE

AJ8248'POST SET

AJ8248'39.2 FEET (11.95 M) SOUTHWEST OF THE EAST GATE POST OF THE WESTERN

AJ8248'MOST ENTRANCE OF A

AJ8248'NURSERY

AJ8248'AT 8775 SW KANNER ROAD (STATE ROAD 76).

AJ8248'

AJ8248'THE MONUMENT IS 48.6 FEET (14.81 M) NORTH OF THE CENTERLINE OF THE

AJ8248'ROAD, 37.0 FEET (11.28 M)

AJ8248'SOUTH OF

AJ8248'A POWER POLE WITH GUY WIRE ON THE WEST SIDE OF ENTRANCE GATE AND 85.8

AJ8248'FEET (26.15 M)

AJ8248'WEST OF THE

AJ8248'WEST END OF A DRIVEWAY CULVERT (8775 SW KANNER ROAD (STATE ROAD 76)).

AJ8248'NOTE A MAGNET WAS

AJ8248'BURIED

AJ8248'NEARBY AT AN UNSPECIFIED POSITION.

AJ8248'

AJ8248'STATION RECOVERY (2002)

AJ8248'RECOVERY NOTE BY MAPTECH, INCORPORATED 2002 (CDP)

AJ8248'RECOVERED AS DESCRIBED.

AJ8248'

AJ8248'



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National Geodetic Survey, Retrieval Date = JANUARY 6, 2016
AJ5611 DESIGNATION - P 516
AJ5611 PID - AJ5611
AJ5611 STATE/COUNTY- FL/MARTIN
AJ5611 COUNTRY - US
AJ5611 USGS QUAD - GOMEZ (1983)
AJ5611
AJ5611
                           *CURRENT SURVEY CONTROL
AJ5611
AJ5611* NAD 83(2011) POSITION- 27 02 38.54255(N) 080 12 22.95856(W) ADJUSTED
AJ5611* NAD 83(2011) ELLIP HT- -22.491 (meters)
                                                 (06/27/12) ADJUSTED
AJ5611* NAD 83(2011) EPOCH - 2010.00
AJ5611* NAVD 88 ORTHO HEIGHT - 4.817 (meters) 15.80 (feet) ADJUSTED
AJ5611
AJ5611 NAD 83(2011) X - 966,957.790 (meters)
                                                             COMP
AJ5611 NAD 83(2011) Y - -5,601,805.924 (meters)
                                                             COMP
AJ5611 NAD 83(2011) Z - 2,882,552.394 (meters)
                                                             COMP
AJ5611 LAPLACE CORR -
                        -3.36 (seconds)
                                                             DEFLEC12B
AJ5611 GEOID HEIGHT
                            -27.319 (meters)
                                                             GEOID12B
                             4.809 (meters)
AJ5611 DYNAMIC HEIGHT -
                                                15.78 (feet) COMP
AJ5611 MODELED GRAVITY - 979,101.1 (mgal)
                                                             NAVD 88
AJ5611
AJ5611 VERT ORDER - FIRST CLASS II
AJ5611
AJ5611 Network accuracy estimates per FGDC Geospatial Positioning Accuracy AJ5611 Standards:
AJ5611
       FGDC (95% conf, cm) Standard deviation (cm)
                                                         CorrNE
AJ5611
             Horiz Ellip
                                  SD N SD E SD h
AJ5611 ------
AJ5611 NETWORK 2.07 3.51
                                   0.85 0.84 1.79 0.07803385
AJ5611 -----
AJ5611 Click here for local accuracies and other accuracy information.
AJ5611
AJ5611
AJ5611. The horizontal coordinates were established by GPS observations
AJ5611.and adjusted by the National Geodetic Survey in June 2012.
AJ5611.NAD 83(2011) refers to NAD 83 coordinates where the reference
AJ5611.frame has been affixed to the stable North American tectonic plate. See
AJ5611.NA2011 for more information.
AJ5611. The horizontal coordinates are valid at the epoch date displayed above
AJ5611.which is a decimal equivalence of Year/Month/Day.
AJ5611. The orthometric height was determined by differential leveling and
AJ5611.adjusted by the NATIONAL GEODETIC SURVEY
AJ5611.in November 2001.
AJ5611
AJ5611. Significant digits in the geoid height do not necessarily reflect accuracy.
AJ5611.GEOID12B height accuracy estimate available here.
AJ5611
AJ5611. The X, Y, and Z were computed from the position and the ellipsoidal ht.
AJ5611
AJ5611. The Laplace correction was computed from DEFLEC12B derived deflections.
AJ5611
AJ5611. The ellipsoidal height was determined by GPS observations
AJ5611.and is referenced to NAD 83.
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AJ5611
AJ5611. The dynamic height is computed by dividing the NAVD 88
AJ5611.geopotential number by the normal gravity value computed on the
AJ5611. Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
AJ5611.degrees latitude (g = 980.6199 \text{ gals.}).
AJ5611
AJ5611. The modeled gravity was interpolated from observed gravity values.
AJ5611
AJ5611. The following values were computed from the NAD 83(2011) position.
AJ5611
AJ5611;
                                                  Units Scale Factor Converg.
                           North
                                         East
                                                                   +0 21 39.1
AJ5611; SPC FL E
                        300,531.470
                                      278,737.073
                                                  MT 1.00001768
                    - 985,993.66
                                                   sFT
                                                                     +0 21 39.1
AJ5611; SPC FL E
                                      914,489.88
                                                        1.00001768
AJ5611;UTM 17
                    - 2,991,560.911
                                    578,710.208
                                                  MT 0.99967648
                                                                     +0 21 39.1
AJ5611
AJ5611!
                    - Elev Factor x Scale Factor =
                                                        Combined Factor
AJ5611!SPC FL E
                   - 1.00000353 x
                                      1.00001768 =
                                                      1.00002121
                  - 1.00000353 x
AJ5611!UTM 17
                                       0.99967648 =
                                                      0.99968001
AJ5611
AJ5611
                                SUPERSEDED SURVEY CONTROL
AJ5611
AJ5611 NAD 83(2007) - 27 02 38.54259(N)
                                           080 12 22.95934(W) AD(2002.00) 0
AJ5611 ELLIP H (02/10/07)
                           -22.475 (m)
                                                               GP (2002.00)
                                                                        ) 1
AJ5611 NAD 83(1999) - 27 02 38.54265(N)
                                           080 12 22.95954(W) AD(
AJ5611 ELLIP H (12/12/02) -22.472 (m)
                                                                         ) 4 1
                                                               GP(
AJ5611 NAVD 88 (12/12/02)
                              4.82
                                     (m)
                                                   15.8
                                                           (f) LEVELING
AJ5611
AJ5611. Superseded values are not recommended for survey control.
AJ5611.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.
AJ5611.See file dsdata.txt to determine how the superseded data were derived.
AJ5611
AJ5611 U.S. NATIONAL GRID SPATIAL ADDRESS: 17RNK7871091560 (NAD 83)
AJ5611
AJ5611 MARKER: F = FLANGE-ENCASED ROD
AJ5611 SETTING: 49 = STAINLESS STEEL ROD W/O SLEEVE (10 FT.+)
AJ5611 STAMPING: P 516 2001
AJ5611 MARK LOGO: FL-085
AJ5611 PROJECTION: FLUSH
AJ5611 MAGNETIC: M = MARKER EQUIPPED WITH BAR MAGNET
AJ5611 STABILITY: B = PROBABLY HOLD POSITION/ELEVATION WELL
AJ5611 SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
AJ5611+SATELLITE: SATELLITE OBSERVATIONS - May 13, 2002
AJ5611 ROD/PIPE-DEPTH: 21.0 meters
AJ5611
AJ5611 HISTORY
                    - Date
                               Condition
                                                Report By
AJ5611 HISTORY
                    - 20010513 MONUMENTED
                                                GCYI
AJ5611 HISTORY
                   - 20020513 GOOD
                                                MAPTEC
                   - 20100730 GOOD
                                                FL-085
AJ5611 HISTORY
AJ5611
AJ5611
                                STATION DESCRIPTION
AJ5611
AJ5611'DESCRIBED BY G.C.Y., INCORPORATED 2001 (KFK)
AJ5611'THE MARK IS LOCATED 7.4 KM (4.6 MI) SOUTHWEST OF HOBE SOUND, 16.7 KM
AJ5611'(J10.4 MI)
AJ5611'NORTHWEST OF JUPITER AND 17.5 KM (10.9 MI) SOUTHEAST OF STUART IN
AJ5611'SECTION
AJ5611'26, TOWNSHIP 39 SOUTH, RANGE 41 EAST NEAR THE NORTH RIGHT-OF-WAY OF
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AJ5611'C.R.

AJ5611'708 (BRIDGE ROAD).

AJ5611'

AJ5611'MARTIN COUNTY RIGHT-OF-WAY.

AJ5611'

AJ5611'TO REACH THE MARK FROM THE INTERSECTION OF I-95 AND C.R. 708 (BRIDGE

AJ5611'ROAD)

AJ5611'GO EAST ON C.R. 708 2.7 KM (1.7 MI) TO THE MARK ON THE LEFT.

AJ5611'

AJ5611'THE MARK IS 17 M (56 FT) NORTH OF THE CENTERLINE OF C.R. 708, 1.3 M (4

AJ5611'FT) EAST

AJ5611'OF A POWER LINE, 21 M (69 FT) SOUTH OF A METAL GATE AND 0.8 M (2.7 FT)

AJ5611'WEST OF

AJ5611'THE WEST EDGE OF A CONCRETE DRIVE.

AJ5611' ACCESS IS THROUGH AN ALUMINUM ACCESS CAP.

AJ5611'

AJ5611'NOTE - MAGNET PLACED IN PVC SLEEVE INSIDE ACCESS COVER.

AJ5611'

AJ5611'

AJ5611

AJ5611 STATION RECOVERY (2002)

AJ5611

AJ5611'RECOVERY NOTE BY MAPTECH INCORPORATED 2002 (CDP)

AJ5611'STATION RECOVERY (2002)

AJ5611'RECOVERY NOTE BY MAPTECH, INCORPORATED 2002 (CDP)

AJ5611'RECOVERED AS DESCRIBED.

AJ5611'

AJ5611'

AJ5611

AJ5611 STATION RECOVERY (2010)

AJ5611

AJ5611'RECOVERY NOTE BY MARTIN COUNTY FLORIDA 2010

AJ5611'RECOVERED IN GOOD CONDITION.



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National Geodetic Survey, Retrieval Date = JANUARY 6, 2016
AJ8525 DESIGNATION - W 522
AJ8525 PID - AJ8525
AJ8525 STATE/COUNTY- FL/MARTIN
AJ8525 COUNTRY - US
AJ8525 USGS QUAD - MARCY (1970)
AJ8525
                           *CURRENT SURVEY CONTROL
AJ8525
AJ8525
AJ8525* NAD 83(2011) POSITION- 27 09 33.36648(N) 080 40 38.57410(W) ADJUSTED
AJ8525* NAD 83(2011) ELLIP HT- -18.772 (meters)
                                                  (06/27/12) ADJUSTED
AJ8525* NAD 83(2011) EPOCH - 2010.00
AJ8525* NAVD 88 ORTHO HEIGHT - 7.987 (meters) 26.20 (feet) ADJUSTED
AJ8525
AJ8525 NAD 83(2011) X - 919,933.837 (meters)
                                                              COMP
AJ8525 NAD 83(2011) Y - -5,603,828.919 (meters)
                                                              COMP
AJ8525 NAD 83(2011) Z - 2,893,920.074 (meters)
                                                              COMP
AJ8525 LAPLACE CORR - AJ8525 GEOID HEIGHT -
                             -1.32 (seconds)
                                                              DEFLEC12B
                             -26.766 (meters)
                                                              GEOID12B
                              7.974 (meters)
AJ8525 DYNAMIC HEIGHT -
                                                 26.16 (feet) COMP
AJ8525 MODELED GRAVITY - 979,091.0 (mgal)
                                                              NAVD 88
AJ8525
AJ8525 VERT ORDER - FIRST CLASS II
AJ8525
{\rm AJ8525} Network accuracy estimates per FGDC Geospatial Positioning Accuracy {\rm AJ8525} Standards:
AJ8525 FGDC (95% conf, cm)
                                 Standard deviation (cm)
                                                          CorrNE
AJ8525
             Horiz Ellip
                                  SD N SD E SD h
AJ8525 -----
AJ8525 NETWORK 0.86 1.53
                                   0.36 0.34 0.78 -0.05569444
AJ8525 -----
AJ8525 Click here for local accuracies and other accuracy information.
AJ8525
AJ8525
AJ8525. The horizontal coordinates were established by GPS observations
AJ8525.and adjusted by the National Geodetic Survey in June 2012.
AJ8525.NAD 83(2011) refers to NAD 83 coordinates where the reference
AJ8525.frame has been affixed to the stable North American tectonic plate. See
AJ8525.NA2011 for more information.
AJ8525. The horizontal coordinates are valid at the epoch date displayed above
AJ8525.which is a decimal equivalence of Year/Month/Day.
AJ8525. The orthometric height was determined by differential leveling and
AJ8525.adjusted by the NATIONAL GEODETIC SURVEY
AJ8525.in May 2002.
AJ8525
AJ8525. Significant digits in the geoid height do not necessarily reflect accuracy.
AJ8525.GEOID12B height accuracy estimate available here.
AJ8525
AJ8525. The X, Y, and Z were computed from the position and the ellipsoidal ht.
AJ8525
AJ8525. The Laplace correction was computed from DEFLEC12B derived deflections.
AJ8525
AJ8525. The ellipsoidal height was determined by GPS observations
AJ8525.and is referenced to NAD 83.
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AJ8525
AJ8525. The dynamic height is computed by dividing the NAVD 88
AJ8525.geopotential number by the normal gravity value computed on the
AJ8525.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
AJ8525.degrees latitude (g = 980.6199 \text{ gals.}).
AJ8525
AJ8525. The modeled gravity was interpolated from observed gravity values.
AJ8525
AJ8525. The following values were computed from the NAD 83(2011) position.
AJ8525
                                        East Units Scale Factor Converg.
AJ8525;
                          North
AJ8525;SPC FL E - 313,091.811 231,974.427 MT 0.99995379 +0 08 50.2

AJ8525;SPC FL E - 1,027,202.05 761,069.43 sFT 0.99995379 +0 08 50.2

AJ8525;UTM 17 - 3,004,116.967 531,963.517 MT 0.99961261 +0 08 50.2
AJ8525
AJ8525!
                   - Elev Factor x Scale Factor = Combined Factor
AJ8525!SPC FL E - 1.00000295 x 0.99995379 = 0.99995674
                  - 1.00000295 x 0.99961261 = 0.99961556
AJ8525!UTM 17
AJ8525
                      Primary Azimuth Mark
AJ8525: PC FL E - P 544
7 78525: UTM 17 - P 544
AJ8525:
                                                                 Grid Az
                                                                 292 30 27.7
                                                                 292 30 27.7
AJ8525|-----|
                                                   Distance Geod. Az |
AJ8525| PID Reference Object
AJ85251
                                                                  dddmmss.s |
AJ8525| AJ8523 P 544
                                                 479.275 METERS 2923917.9 |
AJ8525|------
AJ8525
AJ8525
                                SUPERSEDED SURVEY CONTROL
AJ8525
AJ8525 NAD 83(2007) - 27 09 33.36666(N) 080 40 38.57481(W) AD(2002.00) 0
AJ8525 ELLIP H (02/10/07) -18.758 (m) GP(2002.00)
AJ8525 NAD 83(1999) - 27 09 33.36682(N) 080 40 38.57528(W) AD( ) 1
AJ8525 ELLIP H (12/12/02) -18.759 (m) GP( ) 4
                                                                          ) 4 2
AJ8525 NAVD 88 (12/12/02)
                             7.99 (m)
                                                           (f) LEVELING 3
                                                    26.2
AJ8525. Superseded values are not recommended for survey control.
AJ8525
AJ8525.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.
AJ8525.See file dsdata.txt to determine how the superseded data were derived.
AJ8525
AJ8525 U.S. NATIONAL GRID SPATIAL ADDRESS: 17RNL3196304116(NAD 83)
AJ8525 MARKER: F = FLANGE-ENCASED ROD
AJ8525 SETTING: 49 = STAINLESS STEEL ROD W/O SLEEVE (10 FT.+)
AJ8525 STAMPING: W 522 2001 CERP
AJ8525 MARK LOGO: NONE
AJ8525 PROJECTION: RECESSED 15 CENTIMETERS
AJ8525 MAGNETIC: N = NO MAGNETIC MATERIAL
AJ8525 STABILITY: B = PROBABLY HOLD POSITION/ELEVATION WELL
AJ8525 SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
AJ8525+SATELLITE: SATELLITE OBSERVATIONS - June 01, 2004
AJ8525 ROD/PIPE-DEPTH: 24.4 meters
AJ8525
AJ8525 HISTORY - Date Condition
                                               Report By
AJ8525 HISTORY
                  - 20010910 MONUMENTED
                                               FOST
AJ8525 HISTORY
                   - 20020417 GOOD
                                                MAPTEC
```



AJ8525 HISTORY - 20040601 GOOD CREEI AJ8525 HISTORY - 20100730 GOOD FL-085

AJ8525

AJ8525 STATION DESCRIPTION

AJ8525

AJ8525'DESCRIBED BY CHARLEY FOSTER AND ASSOCIATES 2001 (JB)

AJ8525'THE MONUMENT IS LOCATED 11.0 MILES (17.73 KM) SOUTHEAST OF OKEECHOBEE,

AJ8525'FL. AND 16.1 MILES (25.92 KM)

AJ8525'NORTHWEST OF INDIANTOWN, FL., SECTION 13, TOWNSHIP 38 SOUTH, RANGE 37 AJ8525'EAST.

AJ8525'

AJ8525'OWNERSHIP IS FLORIDA DEPARTMENT OF TRANSPORTATION.

AJ8525'

AJ8525'TO REACH THE MONUMENT FROM THE INTERSECTION OF ADAMS AVENUE AND STATE

AJ8525'ROAD 710 IN

AJ8525'INDIANTOWN, GO NORTHWEST ON STATE ROAD 710 16.1 MILES (25.91 KM) TO

AJ8525'THE JUNCTION OF COUNTY ROAD

AJ8525'714 AND STATE ROAD 710. THE MONUMENT IS LOCATED IN THE NORTHEAST

AJ8525'QUADRANT OF THE JUNCTION. THE

AJ8525'MONUMENT IS 0.3 MILES (0.48 KM) SOUTHEAST OF THE JUNCTION OF COUNTY

AJ8525'ROAD 15B AND STATE ROAD 710.

AJ8525'

AJ8525'THE MONUMENT IS 45.0 FEET (13.72 M) NORTHWEST OF THE CENTERLINE OF

AJ8525'COUNTY ROAD 714, 55.7 FEET (16.98

AJ8525'M) NORTHEAST OF THE CENTERLINE OF STATE ROAD 710, 9.5 FEET (2.90 M)

AJ8525'NORTHEAST OF POWER POLE NO. 6

AJ8525'4055-9840, 16.7 FEET (5.09 M) NORTH OF DAMAGED TELEPHONE PEDESTAL 2719

AJ8525'7, 26.5 FEET (8.08 M) NORTHEAST

AJ8525'OF THE SOUTHEAST END OF GUARDRAIL AND 4.0 FEET (1.22 M) SOUTH OF A

AJ8525'CARSONITE WITNESS POST. NOTE

AJ8525'ACCESS TO THE DATUM POINT (THE TOP OF A STAINLESS STEEL ROD) IS HAD

AJ8525'THROUGH A 5 INCH LOGO CAP.

AJ8525'NOTE A MAGNET WAS PLACED INSIDE THE PVC PIPE.

AJ8525'

AJ8525'

AJ8525

AJ8525 STATION RECOVERY (2002)

AJ8525

AJ8525'RECOVERY NOTE BY MAPTECH INCORPORATED 2002 (CDP)

AJ8525'THE MONUMENT IS LOCATED 11.0 MILES (17.73 KM) SOUTHEAST OF OKEECHOBEE,

AJ8525'FL. AND 16.1 MILES

AJ8525'(25.92 KM)

AJ8525'NORTHWEST OF INDIANTOWN, FL., SECTION 13, TOWNSHIP 38 SOUTH, RANGE 37

AJ8525'EAST.

AJ8525'

AJ8525'OWNERSHIP IS FLORIDA DEPARTMENT OF TRANSPORTATION.

AJ18525!

AJ8525'TO REACH THE MONUMENT FROM THE INTERSECTION OF ADAMS AVENUE AND STATE

AJ8525'ROAD 710 IN

AJ8525'INDIANTOWN, GO NORTHWEST ON STATE ROAD 710 16.1 MILES (25.91 KM) TO

AJ8525'THE JUNCTION OF

AJ8525'COUNTY ROAD

AJ8525'714 AND STATE ROAD 710. THE MONUMENT IS LOCATED IN THE NORTHEAST

AJ8525'QUADRANT OF THE

AJ8525'JUNCTION. THE

AJ8525'MONUMENT IS 0.3 MILES (0.48 KM) SOUTHEAST OF THE JUNCTION OF COUNTY

AJ8525'ROAD 15B AND STATE

AJ8525'ROAD 710.



AJ8525'

AJ8525'THE MONUMENT IS 45.0 FEET (13.72 M) NORTHWEST OF THE CENTERLINE OF

AJ8525'COUNTY ROAD 714, 55.7

AJ8525'FEET (16.98

AJ8525'M) NORTHEAST OF THE CENTERLINE OF STATE ROAD 710, 9.5 FEET (2.90 M)

AJ8525'NORTHEAST OF POWER

AJ8525'POLE NO. 6

AJ8525'4055-9840, 16.7 FEET (5.09 M) NORTH OF DAMAGED TELEPHONE PEDESTAL 2719

AJ8525'7, 26.5 FEET (8.08 M)

AJ8525'NORTHEAST

AJ8525'OF THE SOUTHEAST END OF GUARDRAIL AND 4.0 FEET (1.22 M) SOUTH OF A

AJ8525 CARSONITE WITNESS

AJ8525'POST. NOTE

AJ8525'ACCESS TO THE DATUM POINT (THE TOP OF A STAINLESS STEEL ROD) IS HAD

AJ8525'THROUGH A 5 INCH LOGO

AJ8525 CAP.

AJ8525'NOTE A MAGNET WAS PLACED INSIDE THE PVC PIPE.

AJ8525'

AJ8525'STATION RECOVERY (2002)

AJ8525'

AJ8525'RECOVERY NOTE BY MAPTECH, INCORPORATED 2002 (CDP)

AJ8525'RECOVERED AS DESCRIBED.

AJ8525 STATION RECOVERY (2004)

AJ8525

AJ8525'RECOVERY NOTE BY CREECH ENGINEERS INC 2004 (SAL)

AJ8525'RECOVERY NOTE BY CREECH ENGINEERS, INCORPORATED. - MELBOURNE 2006

AJ8525'(DTB) RECOVERED AS DESCRIBED WITH THE FOLLOWING CHANGES---

AJ8525'REFERENCES-- SET MAG NAIL AND DISK --- REFERENCE. PT. LB 6705 ---

AJ8525'AT THE WEST EDGE OF PAVEMENT OF NORTHBOUND STATE ROAD 710 (MARTIN

AJ8525'HIGHWAY) ON A MAGNETIC AZIMUTH OF 102 DEGREES AT A DISTANCE OF 30.75

AJ8525'FT (9.37 M). SET MAG NAIL AND DISK --- REFERENCE. PT. LB 6705 --- IN

AJ8525'A WOOD LIGHT POLE ON A MAGNETIC AZIMUTH OF 190 DEGREES AT A DISTANCE

AJ8525'OF 8.5 FT (2.59 M). SET MAG NAIL AND DISK --- REFERENCE. PT. LB 6705 AJ8525'--- ON TOP OF A WOOD GAURD RAIL POST FIFTH ONE FROM THE SOUTHEAST END

AJ8525'ON A MAGNETIC AZIMUTH OF 260 DEGREES AT A DISTANCE OF 36.52 FT (11.13

AJ8525'M). SET MAG NAIL AND DISK --- REFERENCE. PT. LB 6705 --- IN A WOOD

AJ8525'POWER POLE ON A MAGNETIC AZIMUTH OF 342 DEGREES AT A DISTANCE OF

AJ8525'58.82 FT (17.93 M).

AJ8525

AJ8525 STATION RECOVERY (2010)

AJ8525

AJ8525'RECOVERY NOTE BY MARTIN COUNTY FLORIDA 2010

AJ8525'RECOVERED IN GOOD CONDITION.



## Appendix E | Ground Control Diagram

