

Ground Control Survey Report



Lidar Collection Ground Control Report

West Tennessee

Contract Number: G10PC00057
Task Order Number: G15PD00231

Contractor: Woolpert, Inc.
Woolpert Project # 79576

January 2021

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United States Geological Survey

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Section 1: Survey Report

Introduction

This report contains a comprehensive outline of the Ground Control Survey that supported the LiDAR over western Tennessee. All surveys were performed in such a way as to achieve ground control accuracies that meet or exceed the National Mapping Accuracy Standards.

Project Area

The project area consists of approximately 6000 square miles of Western Tennessee

Purpose

The purpose of this survey was to establish three-dimensional coordinates for 84 LiDAR control points, 164 non-vegetated check points, and 111 vegetated check points. The points were collected per the flight layout and were uniformly dispersed over the project area.

Date of Survey

Ground control field operations began in February 2019, however due to extensive rain and flooding the remaining ground control was completed the following year in February of 2020.

Monumentation

Prior to aerial imagery acquisition, Woolpert field crews performed a field reconnaissance to verify the existence and suitability of pre-selected existing National Geodetic Survey (NGS) control stations. These existing NSRS control stations were utilized as checks to ensure that quality x, y, and z coordinate values were computed for each of the newly established photogrammetric control stations. Recovery information sheets for the existing NGS control stations can be found in Section 4 of this report. A control diagram showing the ground control stations used to support this mapping project can be found in Section 5 of this report.

Accuracy Standards

The relative vertical accuracy of the LiDAR data will be 10 cm RMSEz with swath overlap (between adjacent swaths) and an absolute vertical accuracy of 15cm RMSE.

GPS Equipment

Woolpert utilized 3 Trimble Navigation R8 Model 3 GNSS dual-frequency GPS receivers, and 1 TSC3 data collector for this project.

Methodology

Static GPS

The field crew utilized Static GPS surveying throughout the ground control data collection process. Using Static GPS techniques, observations were performed on a total of 7 LiDAR check points. The survey was conducted using a 1-second epoch rate, in a fixed solution, with each observation lasting at least 20 minutes. Each station was occupied twice to insure the necessary horizontal and vertical accuracies were being met for this photogrammetric project.

Real-Time Kinematic (RTK) GPS

The field crew utilized Real-Time Kinematic (RTK) GPS surveying throughout the ground control data collection process. Using RTK GPS techniques, observations were performed on a total of 84 LiDAR calibration points, 268 LiDAR check points. The survey was conducted using a 1-second epoch rate, in a fixed solution RTK mode, with each observation lasting between 60 to 180 seconds. Each station was occupied twice to insure the necessary horizontal and vertical accuracies were being met for this LiDAR / photogrammetric project.

VRS Virtual Reference System or RTN Real Time Network.

The “Virtual Reference Station” (VRS) concept is based on having a network (spaced at 50-60kms) 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, that is, at the work site. Thus, accuracies are increased and more consistent throughout the working region

GPS Data Analysis and Processing

The field crew chief processed all session baselines each day using Trimble Navigation’s Trimble Business Center (TBC) Version 5.20 baseline processor with the accompanying broadcast ephemeris. Daily processing ensured the integrity of the network as it was constructed and allowed the field crews to immediately reschedule observations of poor baselines.

Datum Reference and Final Coordinates

The spatial reference system for the project is NAD83 2011 2010.00 epoch. Coordinates are referenced to State plane Tennessee zone. Orthometric heights referenced to Geoid 12B. Units for both the horizontal and vertical datums will be expressed in US Feet to three (2) decimal places.

Quality Assurance

Existing NGS published benchmarks 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. The ground control data meets positional accuracies necessary to support 1.0 point per 0.3 meters squared (1’ GSD) data at 95% confidence level as outlined in the Geospatial

Positioning Accuracy Standards, Part 3: National Standard for Spatial Data Accuracy (NSSDA), published by the Federal Geographic Data Committee (FGDC-STD-007.3-1998).

Section 2: Ground Control / Geodetic Control Coordinate Listings

Coordinate System: United States/State Plane 1983

HORIZONTAL DATUM: NAD 1983 (Conus)

PROJECTION: Tennessee 4100

VERTICAL DATUM: NAVD88

GEOID MODEL: GEOID12B (Conus)

UNITS: US ft

Ground Control

Point No.	Tennessee 4100		Ortho Height GEOID 12B (US ft)	Description
	Northing (US ft)	Easting (US ft)		
1001_2019_TN	405381.73	725579.17	252.30	LCP
1002_2019_TN	429969.27	737648.60	233.94	LCP
1003_2019_TN	447802.24	755656.69	231.80	LCP
1003A_2019_TN	447219.75	760575.03	255.06	LCP
1004_2019_TN	437035.24	769962.02	236.22	LCP
1005A_2019_TN	430901.17	784931.74	236.40	LCP
1006_2019_TN	450391.21	798874.50	294.31	LCP
1007_2019_TN	451805.62	812939.99	317.01	LCP
1008_2019_TN	460678.69	827084.08	326.44	LCP
1009_2019_TN	465566.73	841474.58	294.97	LCP
1010_2019_TN	469242.30	855981.19	398.66	LCP
1011_2019_TN	467458.64	870137.83	382.40	LCP
1012_2019_TN	507287.62	884639.90	281.57	LCP
1013_2019_TN	514042.61	899351.93	333.37	LCP
1014_2019_TN	519811.65	913578.60	419.83	LCP
1015_2019_TN	523837.56	927423.91	417.60	LCP
1016_2019_TN	520857.10	939974.91	388.43	LCP
1017_2019_TN	514996.30	955292.17	339.36	LCP
1018_2019_TN	514435.61	969224.85	348.18	LCP

Point No.	Tennessee 4100		Ortho Height GEOID 12B (US ft)	Description
	Northing (US ft)	Easting (US ft)		
1019_2019_TN	507062.10	983562.35	311.11	LCP
1020_2019_TN	515270.10	1000584.10	308.45	LCP
1021_2019_TN	521096.95	1017020.57	299.37	LCP
1022_2019_TN	516766.57	1034170.33	348.68	LCP
1023_2019_TN	514774.52	1050369.09	319.99	LCP
1024_2019_TN	513284.18	1067157.31	350.33	LCP
1025_2019_TN	504925.86	1083270.41	388.92	LCP
1026_2019_TN	499035.39	1100693.34	351.87	LCP
1027_2019_TN	498656.64	1115849.66	400.96	LCP
1028_2019_TN	498499.89	1132103.51	523.63	LCP
1029_2019_TN	494803.41	1148282.36	583.12	LCP
1030_2019_TN	466656.06	1164380.38	398.97	LCP
1031_2019_TN	461414.84	1180739.09	421.32	LCP
1032_2019_TN	455424.76	1196561.53	493.43	LCP
1033_2020_TN	423477.83	1213137.21	548.51	LCP
1034_2020_TN	409678.73	1230113.58	586.45	LCP
1035_2020_TN	406607.29	1246999.80	478.53	LCP
1036_2019_TN	402649.09	1263381.58	400.80	LCP
1037_2019_TN	594199.75	1149439.73	435.87	LCP
1038_2020_TN	600735.17	898021.68	275.30	LCP
1039_2019_TN	597282.14	1028097.44	298.60	LCP
1040_2020_TN	620770.47	863861.29	258.64	LCP
1041_2020_TN	662191.07	879540.56	268.57	LCP
1042_2020_TN	647146.94	893848.31	282.14	LCP
1043_2020_TN	664627.78	911464.35	270.06	LCP
1044_2020_TN	683452.74	928842.33	269.96	LCP
1045_2020_TN	683564.25	945544.46	272.05	LCP
1046_2020_TN	701816.00	962368.07	288.72	LCP
1047_2020_TN	704994.72	978780.43	346.82	LCP
1048_2020_TN	699862.20	995187.55	278.47	LCP
1049_2020_TN	697934.94	1011575.93	287.30	LCP
1050_2020_TN	695986.99	1027794.66	300.98	LCP
1051_2020_TN	699419.09	1044084.79	293.20	LCP

Point No.	Tennessee 4100		Ortho Height GEOID 12B (US ft)	Description
	Northing (US ft)	Easting (US ft)		
1052_2020_TN	695709.38	1061148.59	352.17	LCP
1053_2020_TN	695701.34	1077784.65	328.40	LCP
1054_2020_TN	687279.23	1094290.79	367.40	LCP
1055_2020_TN	689081.01	1110883.61	331.57	LCP
1056_2020_TN	683976.15	1127489.64	364.64	LCP
1057_2020_TN	676078.83	1143869.16	391.93	LCP
1058_2020_TN	692956.10	1161194.90	369.90	LCP
1059_2020_TN	704622.50	1177268.12	359.82	LCP
1060_2020_TN	715174.45	1193588.29	355.02	LCP
1061_2019_TN	722186.44	1210753.41	409.92	LCP
1062_2019_TN	723387.12	1224621.69	440.87	LCP
1063_2019_TN	789087.32	1232963.75	404.14	LCP
1064_2019_TN	524260.95	2080896.68	915.87	LCP
1064A_2019_TN	524466.58	2080987.53	910.89	LCP
1065_2019_TN	445931.70	2101808.09	1873.59	LCP
1066_2019_TN	437200.33	2121587.18	1934.07	LCP
1067_2019_TN	456189.64	2141382.34	1899.41	LCP
1067A_2019_TN	455909.70	2141021.62	1902.75	LCP
1068_2019_TN	500504.62	2163034.78	1859.34	LCP
1069_2019_TN	510766.10	2177864.52	1845.87	LCP
1070A_2019_TN	516754.30	2192265.40	1745.34	LCP
1071_2019_TN	357611.74	2094114.47	2275.39	LCP
1072A_2019_TN	362505.68	2121652.41	1989.54	LCP
1072B_2019_TN	349915.92	2111624.38	2044.07	LCP
1073A_2019_TN	367418.94	2132424.16	1970.48	LCP
1073B_2019_TN	377953.67	2133251.84	2222.39	LCP
1074_2019_TN	376574.96	2151364.98	919.39	LCP
1075_2019_TN	375297.03	2169700.58	1472.51	LCP
1076_2019_TN	370167.53	2185853.24	1826.13	LCP
1077_2019_TN	368624.96	2199023.05	1834.55	LCP
1078_2019_TN	404445.96	2137725.16	2054.12	LCP
1078A_2019_TN	405195.38	2136778.43	2104.22	LCP
2001_2020_TN	747408.90	983311.99	438.04	NVA

Point No.	Tennessee 4100		Ortho Height GEOID 12B (US ft)	Description
	Northing (US ft)	Easting (US ft)		
2002A_2019_TN	470772.09	996902.77	338.46	NVA
2002B_2019_TN	470776.31	996862.57	337.88	NVA
2003_2019_TN	426877.88	1084289.52	499.52	NVA
2004_2019_TN	489296.00	814377.70	257.14	NVA
2005_2019_TN	432534.97	1158809.34	384.75	NVA
2006A_2020_TN	648762.14	913218.04	261.07	NVA
2006B_2020_TN	648721.84	913212.16	260.91	NVA
2007_2019_TN	443655.05	1084182.94	467.34	NVA
2008_2020_TN	720320.56	940613.06	284.00	NVA
2009_2020_TN	655884.42	1043670.54	349.74	NVA
2010_2019_TN	457144.46	1132341.49	427.81	NVA
2011_2019_TN	404173.93	1250787.81	572.46	NVA
2012_2019_TN	459757.48	1059598.63	412.54	NVA
2013_2020_TN	735857.60	924824.54	293.77	NVA
2014_2019_TN	545344.22	924402.17	404.09	NVA
2015A_2019_TN	345925.49	1143398.00	474.67	NVA
2015B_2019_TN	345919.43	1143438.38	474.57	NVA
2016_2019_TN	417601.36	1256763.98	516.38	NVA
2017_2019_TN	465763.04	987240.02	388.81	NVA
2018_2019_TN	456690.95	1084209.64	506.38	NVA
2019_2020_TN	652058.09	1149779.62	364.19	NVA
2020_2019_TN	461391.20	1035588.38	447.37	NVA
2021_2020_TN	666964.19	1006071.33	365.48	NVA
2022_2020_TN	667784.97	1086642.12	322.70	NVA
2023_2019_TN	500880.08	1033658.39	331.93	NVA
2024_2019_TN	615795.01	1164557.36	517.09	NVA
2025_2019_TN	486893.89	1028778.31	373.00	NVA
2026_2019_TN	597831.52	1126930.20	367.36	NVA
2027_2019_TN	619644.94	1045862.14	366.89	NVA
2028_2019_TN	458298.63	1208233.44	491.73	NVA
2029_2019_TN	428623.71	955921.17	312.60	NVA
2030A_2020_TN	692038.75	1201031.25	434.84	NVA
2030B_2020_TN	691999.63	1201072.52	435.55	NVA

Point No.	Tennessee 4100		Ortho Height GEOID 12B (US ft)	Description
	Northing (US ft)	Easting (US ft)		
2031_2019_TN	386987.65	1262807.80	420.36	NVA
2032_2019_TN	432076.06	1064190.71	362.79	NVA
2033_2020_TN	628615.26	882622.15	279.41	NVA
2034_2020_TN	636238.31	965572.30	290.55	NVA
2035_2020_TN	783674.91	1073118.36	374.06	NVA
2036_2019_TN	593290.73	1107457.61	375.17	NVA
2037_2019_TN	799040.79	1116834.62	373.95	NVA
2038A_2019_TN	609857.56	1101944.22	325.69	NVA
2038B_2019_TN	609923.29	1101941.61	324.61	NVA
2039_2019_TN	626666.90	1138652.87	408.24	NVA
2040_2020_TN	776846.76	938210.51	286.40	NVA
2041_2019_TN	402643.48	1181919.56	436.45	NVA
2042A_2019_TN	443001.56	746603.25	253.54	NVA
2042B_2019_TN	443003.23	746653.19	253.48	NVA
2043_2020_TN	672823.59	1182437.92	354.16	NVA
2044_2019_TN	501807.85	846532.54	304.77	NVA
2045_2019_TN	549701.75	1111386.87	353.90	NVA
2046_2020_TN	724839.62	1102340.88	357.03	NVA
2047_2019_TN	585369.75	1153323.46	409.42	NVA
2048_2020_TN	746877.55	1040011.26	362.40	NVA
2049_2019_TN	487085.16	1122241.94	403.14	NVA
2050_2019_TN	535401.22	889876.95	310.31	NVA
2051_2020_TN	708289.34	923751.86	280.36	NVA
2052_2019_TN	428197.75	832347.46	441.93	NVA
2053_2020_TN	743697.46	1077542.01	357.97	NVA
2054_2019_TN	747264.96	1196853.24	397.79	NVA
2055_2020_TN	586293.51	1006519.38	322.51	NVA
2056_2019_TN	390683.93	1161503.33	482.67	NVA
2057_2019_TN	489695.22	821789.24	396.09	NVA
2058A_2019_TN	743082.43	1129031.27	405.72	NVA
2058B_2019_TN	743033.19	1129022.65	406.61	NVA
2059_2020_TN	681504.28	1030779.17	297.42	NVA
2060_2019_TN	428851.66	1194124.49	429.17	NVA

Point No.	Tennessee 4100		Ortho Height GEOID 12B (US ft)	Description
	Northing (US ft)	Easting (US ft)		
2061_2020_TN	660499.09	958151.78	413.07	NVA
2062_2019_TN	490560.27	953213.71	295.60	NVA
2063_2020_TN	426292.49	880549.87	333.33	NVA
2064_2019_TN	786623.52	1211695.39	417.29	NVA
2064A_2019_TN	786575.54	1211645.56	417.58	NVA
2065_2020_TN	615192.17	964880.53	337.99	NVA
2066_2019_TN	581684.70	915295.90	262.60	NVA
2067_2020_TN	753504.60	970625.99	291.33	NVA
2068_2020_TN	579758.02	962834.03	303.98	NVA
2069_2020_TN	727045.22	1193126.88	500.04	NVA
2070_2019_TN	421679.90	1114319.04	477.09	NVA
2071_2019_TN	486133.45	890674.07	271.33	NVA
2072_2019_TN	791794.47	1169377.87	420.02	NVA
2073_2019_TN	503712.37	931365.86	320.78	NVA
2074A_2019_TN	506743.21	905305.86	311.08	NVA
2074B_2019_TN	506716.05	905263.92	311.04	NVA
2075_2020_TN	692212.49	950665.22	276.90	NVA
2076_2019_TN	517251.03	885853.77	363.79	NVA
2077_2020_TN	597401.21	955605.17	324.60	NVA
2078_2019_TN	433128.55	804423.07	432.27	NVA
2079_2020_TN	657312.83	936117.91	300.34	NVA
2080_2020_TN	780897.23	998633.12	310.42	NVA
2081_2019_TN	562285.82	1025341.56	341.63	NVA
2082_2019_TN	579897.47	1100209.66	375.88	NVA
2083_2019_TN	526739.18	1066669.40	367.96	NVA
2084_2020_TN	668228.40	1158605.03	460.00	NVA
2085_2019_TN	763775.88	1207285.69	444.94	NVA
2086_2020_TN	767697.09	1059755.28	326.43	NVA
2087_2020_TN	767213.45	1013993.84	397.96	NVA
2088_2019_TN	412839.28	836911.04	401.14	NVA
2089_2019_TN	613213.69	1089478.67	342.27	NVA
2090_2019_TN	525073.31	1115314.37	364.82	NVA
2091_2020_TN	744529.75	945946.75	286.80	NVA

Point No.	Tennessee 4100		Ortho Height GEOID 12B (US ft)	Description
	Northing (US ft)	Easting (US ft)		
2092_2019_TN	419789.62	1006995.96	359.15	NVA
2093_2019_TN	444125.18	860591.77	298.12	NVA
2094_2019_TN	570282.16	921580.22	506.78	NVA
2095_2020_TN	712541.64	1114136.29	340.86	NVA
2096_2020_TN	684514.45	914261.51	275.42	NVA
2097_2019_TN	394506.87	1242319.30	514.12	NVA
2098_2020_TN	559039.48	964029.38	298.90	NVA
2099_2019_TN	514941.51	1187491.77	535.10	NVA
2100_2020_TN	590771.57	1060232.52	334.54	NVA
2101_2019_TN	521954.52	872030.63	330.62	NVA
2102_2019_TN	478196.39	1098909.49	409.56	NVA
2103_2019_TN	720752.35	1168097.07	445.68	NVA
2103A_2019_TN	720887.84	1168396.68	436.15	NVA
2104_2019_TN	778096.90	1145664.26	404.56	NVA
2105_2019_TN	544161.11	886934.13	456.64	NVA
2106_2020_TN	668968.78	1128008.60	313.98	NVA
2107_2020_TN	635063.36	1019806.58	291.77	NVA
2108_2019_TN	484810.76	853882.53	288.34	NVA
2109A_2019_TN	542163.09	1043294.88	374.13	NVA
2109B_2019_TN	542161.44	1043335.86	374.41	NVA
2110_2019_TN	594806.83	931473.55	273.16	NVA
2111_2020_TN	792588.80	1031917.86	475.55	NVA
2112_2019_TN	503630.01	1015449.57	358.74	NVA
2113_2019_TN	459246.21	875960.07	378.47	NVA
2114_2020_TN	695086.79	1169441.02	374.71	NVA
2115_2020_TN	794029.35	1010106.57	362.32	NVA
2116_2019_TN	760063.62	1091636.80	314.31	NVA
2117_2019_TN	518193.79	1148343.32	428.36	NVA
2118A_2019_TN	493106.19	1057761.59	434.68	NVA
2118B_2019_TN	493108.92	1057852.86	435.57	NVA
2119_2019_TN	398621.56	1216844.36	538.20	NVA
2120_2019_TN	551364.51	911613.81	481.10	NVA
2121_2019_TN	466331.50	928540.01	276.12	NVA

Point No.	Tennessee 4100		Ortho Height GEOID 12B (US ft)	Description
	Northing (US ft)	Easting (US ft)		
2122_2020_TN	442655.39	897605.87	325.13	NVA
2123_2019_TN	491767.37	976827.63	341.34	NVA
2124_2020_TN	763216.86	948389.71	300.10	NVA
2125_2020_TN	798284.94	1052576.75	365.78	NVA
2126_2019_TN	448028.98	839418.16	345.46	NVA
2127_2020_TN	786775.89	957062.30	303.15	NVA
2128_2019_TN	640840.55	1100170.10	439.49	NVA
2129_2019_TN	647275.21	1079763.24	322.20	NVA
2130_2019_TN	573794.56	1125092.53	397.53	NVA
2131_2019_TN	484828.37	2133505.54	1871.35	NVA
2132_2019_TN	403802.31	2163170.14	744.99	NVA
2133A_2019_TN	493249.92	2103106.94	1870.56	NVA
2134_2019_TN	387514.37	2154263.85	768.66	NVA
2135_2019_TN	531919.56	2180972.85	1777.04	NVA
2136_2019_TN	472030.26	2123785.67	1878.93	NVA
2136A_2019_TN	472064.63	2124016.59	1877.18	NVA
2136B_2019_TN	472048.64	2124017.57	1877.40	NVA
2137_2019_TN	543835.67	2130546.60	999.93	NVA
2138_2019_TN	323181.90	2150426.40	2008.38	NVA
2138A_2019_TN	322688.66	2150528.93	1980.66	NVA
2139_2019_TN	422667.46	2107414.98	1824.69	NVA
2140_2019_TN	415982.13	2128978.35	2114.22	NVA
2141A_2019_TN	514588.35	2128477.86	1791.48	NVA
2141B_2019_TN	514538.63	2128474.16	1794.53	NVA
2142A_2019_TN	380364.24	2192602.91	1931.81	NVA
2142B_2019_TN	380378.84	2192650.69	1932.89	NVA
2143_2019_TN	535002.95	2095670.47	849.82	NVA
2143A_2019_TN	535002.03	2095671.19	849.81	NVA
2144_2019_TN	357164.65	2137239.33	713.45	NVA
2145_2019_TN	348381.56	2185617.80	1752.13	NVA
2146_2019_TN	357587.41	2151598.69	719.55	NVA
3001_2019_TN	435204.04	804437.84	431.38	VVA
3002_2019_TN	451384.85	796340.63	258.37	VVA

Point No.	Tennessee 4100		Ortho Height GEOID 12B (US ft)	Description
	Northing (US ft)	Easting (US ft)		
3003_2019_TN	465183.05	839640.05	300.57	VVA
3004_2019_TN	458729.55	1209191.76	476.01	VVA
3005A_2019_TN	422706.33	2107471.18	1828.11	VVA
3006_2019_TN	416337.63	2128923.03	2106.58	VVA
3006A_2019_TN	416234.46	2129057.75	2092.49	VVA
3007_2019_TN	326063.86	2149124.83	2054.15	VVA
3008_2019_TN	345956.49	1143482.53	468.55	VVA
3009_2019_TN	417687.89	1256731.13	517.22	VVA
3010_2019_TN	461727.03	1035900.81	451.81	VVA
3011_2019_TN	517338.02	885936.39	348.47	VVA
3012_2019_TN	531905.49	2180876.21	1770.38	VVA
3012A_2019_TN	531659.80	2180774.92	1772.81	VVA
3013A_2019_TN	493133.17	2103152.91	1870.26	VVA
3014_2019_TN	446604.54	2101386.74	1882.23	VVA
3014A_2019_TN	446451.57	2101480.37	1881.84	VVA
3015_2019_TN	402675.18	1263338.13	395.79	VVA
3016_2019_TN	426673.29	1193317.10	399.27	VVA
3017_2019_TN	770136.88	1208397.08	374.98	VVA
3018_2020_TN	743598.07	1077086.08	304.44	VVA
3019_2020_TN	747191.34	983594.85	440.81	VVA
3020_2019_TN	498598.88	1132398.15	521.29	VVA
3021_2019_TN	466807.54	930971.68	265.76	VVA
3022_2019_TN	489641.36	821895.38	397.38	VVA
3023_2019_TN	550140.89	914098.98	445.49	VVA
3024_2020_TN	780845.77	998560.06	314.82	VVA
3025_2020_TN	794204.07	1010181.95	333.71	VVA
3026_2020_TN	727230.61	1193319.58	492.28	VVA
3027_2020_TN	704906.56	1176924.47	350.93	VVA
3028_2019_TN	790901.54	1168352.51	418.69	VVA
3029_2019_TN	778156.05	1145555.93	403.09	VVA
3030_2020_TN	792710.72	1031926.15	477.59	VVA
3031_2020_TN	703624.63	961836.36	303.48	VVA
3032_2020_TN	657047.53	936753.24	319.11	VVA

Point No.	Tennessee 4100		Ortho Height GEOID 12B (US ft)	Description
	Northing (US ft)	Easting (US ft)		
3033_2020_TN	665346.69	912502.11	281.78	VVA
3034_2020_TN	767097.53	1013664.29	386.51	VVA
3035_2019_TN	492918.78	1057963.74	412.09	VVA
3036_2019_TN	500922.44	1033542.83	322.46	VVA
3037A_2019_TN	526256.97	926156.85	449.22	VVA
3037B_2019_TN	521593.32	920410.31	350.72	VVA
3038_2019_TN	506121.71	905446.29	291.75	VVA
3039_2019_TN	507456.18	884806.52	278.23	VVA
3040_2019_TN	524546.00	2082241.29	851.95	VVA
3041_2019_TN	535348.39	2094757.36	863.76	VVA
3042_2019_TN	544038.06	2131744.16	921.25	VVA
3043_2019_TN	357392.58	2151816.81	725.33	VVA
3043A_2019_TN	357465.09	2151786.44	725.80	VVA
3044_2019_TN	402304.30	2162204.32	777.85	VVA
3044A_2019_TN	404088.95	2162944.01	763.40	VVA
3045_2019_TN	380423.90	2192614.85	1936.21	VVA
3046_2019_TN	389869.82	1161537.22	476.37	VVA
3047_2019_TN	394456.54	1242405.33	520.01	VVA
3048_2020_TN	424127.12	1212241.60	537.37	VVA
3049_2019_TN	400610.86	1185720.20	407.68	VVA
3050_2019_TN	443574.66	1084199.30	467.63	VVA
3051_2019_TN	484720.86	853891.67	286.86	VVA
3052_2019_TN	412710.30	836966.46	401.28	VVA
3053_2019_TN	429602.23	955172.81	339.43	VVA
3054_2019_TN	419877.10	1006137.46	358.44	VVA
3055_2019_TN	431741.14	1159962.44	384.01	VVA
3056_2019_TN	466426.27	1163342.38	377.96	VVA
3057_2019_TN	597928.26	1126832.11	366.02	VVA
3058_2020_TN	651822.53	1149856.97	356.90	VVA
3059_2020_TN	672798.00	1182668.67	352.75	VVA
3060_2020_TN	694802.16	1169209.74	361.09	VVA
3061_2020_TN	715296.44	1193560.97	356.41	VVA
3062_2019_TN	723336.00	1224541.99	438.48	VVA

Point No.	Tennessee 4100		Ortho Height GEOID 12B (US ft)	Description
	Northing (US ft)	Easting (US ft)		
3063_2020_TN	783146.09	1073667.39	367.29	VVA
3064_2019_TN	799010.06	1117341.16	355.99	VVA
3065_2020_TN	724686.01	1102385.63	358.00	VVA
3066_2020_TN	776744.61	938286.08	281.11	VVA
3067_2020_TN	786669.80	957012.49	301.01	VVA
3068_2020_TN	745216.66	945723.22	286.05	VVA
3069_2020_TN	735812.66	924801.48	287.78	VVA
3070_2020_TN	708303.87	923623.17	278.32	VVA
3071_2020_TN	628525.85	882646.30	273.14	VVA
3072_2019_TN	594728.68	931391.61	266.32	VVA
3073_2020_TN	558977.10	964053.25	297.73	VVA
3074_2020_TN	586071.73	1006214.47	314.81	VVA
3075_2020_TN	590695.52	1060279.22	335.09	VVA
3076_2019_TN	579928.31	1100270.06	372.40	VVA
3077_2019_TN	525099.47	1115258.81	364.43	VVA
3078_2019_TN	419512.73	1114043.92	468.99	VVA
3079_2019_TN	432073.02	1063418.42	340.91	VVA
3080_2019_TN	477947.36	1099003.74	405.72	VVA
3081_2020_TN	438303.89	900133.69	361.73	VVA
3082_2019_TN	442248.14	859873.76	301.85	VVA
3083_2019_TN	436827.18	770599.04	236.85	VVA
3084_2019_TN	432648.35	738927.42	223.14	VVA
3085_2019_TN	405320.56	725453.20	232.04	VVA
3086_2020_TN	635061.85	1019892.37	288.88	VVA
3087_2020_TN	655747.34	1043697.01	353.88	VVA
3088_2020_TN	681558.05	1030826.30	298.70	VVA
3089_2020_TN	699373.26	1044059.22	292.83	VVA
3090_2020_TN	697894.57	1011554.34	286.09	VVA
3091_2020_TN	667987.68	1086424.70	327.72	VVA
3092_2020_TN	695787.65	1061120.97	349.52	VVA
3093_2020_TN	687339.15	1094305.39	369.29	VVA
3094_2020_TN	683990.13	1127533.66	365.23	VVA
3095_2019_TN	640217.16	1100468.25	400.37	VVA

Point No.	Tennessee 4100		Ortho Height GEOID 12B (US ft)	Description
	Northing (US ft)	Easting (US ft)		
3096_2019_TN	514504.12	969249.21	345.99	VVA
3097_2019_TN	515316.72	1000562.31	310.50	VVA
3098_2019_TN	561718.18	1024675.39	344.12	VVA
3099_2020_TN	746986.98	1041088.27	344.59	VVA
3100_2019_TN	492070.18	976418.88	329.12	VVA
3101_2019_TN	526697.11	1066583.91	366.65	VVA
3102_2019_TN	516864.22	1034128.61	343.74	VVA
3103_2019_TN	520920.42	940112.12	382.63	VVA
3104_2019_TN	742252.67	1127219.46	375.74	VVA
3105_2020_TN	615495.58	966192.06	331.95	VVA

Geodetic Control

Point No.	Tennessee 4100		Ortho Height GEOID 12B (US ft)	Description
	Northing (US ft)	Easting (US ft)		
1	482907.09	1082073.42	450.50	FE0594
101_2019_TN	488048.24	2124509.36	1836.58	TSM
102_2019_TN	387297.84	2154880.99	773.17	TSM
103_2019_TN	429263.08	788529.79	245.52	TSM
104_2019_TN	531065.96	879853.62	331.95	TSM
105_2019_TN	760066.03	1167837.58	416.98	TSM
110_2019_TN	403578.34	1203980.54	495.56	TSM
120_2020_TN	703656.50	1135668.80	415.25	TSM
130_2020_TN	742333.37	999154.28	473.04	TSM
D 95	627128.39	877534.27	262.44	FE1523
GPS 17	725372.65	1024241.96	310.62	GD1865
GPS 32	594015.95	1081068.27	320.18	FE2744
GPS 37	455611.99	2201084.51	826.44	FC1927
GPS 38	463432.42	2056100.15	890.81	FC1928
GPS 46	455377.98	1004935.58	381.66	FE2748
GPS 50	312200.30	2122403.04	683.36	FC1931
M53 A	547163.25	1116215.37	414.53	AI9846
M53 B	548331.80	1117471.01	418.75	AI9819
M53 C	545940.07	1115097.94	406.33	AI9838
PINSON 1	435387.82	1166011.90	428.00	DG7715
PINSON 2	435523.33	1164788.11	430.96	DG7716
Q 160	574810.23	1151253.44	457.18	FE0695
R 264	624363.82	963978.69	277.09	GD1118
REGION 4	488321.01	1101022.86	355.71	DG7702
S 8 5	660586.49	958153.89	416.77	GD1105
TT N 157	383374.51	1194151.26	431.01	FE0511
U 13	772926.11	1060280.55	340.45	GD0784
U 14X	645390.82	1083644.32	355.99	DG5302
X 173	758467.16	1129726.62	364.21	GD0312

Coordinate System: Geographic

HORIZONTAL DATUM: NAD 1983 (Conus)

Epoch:2010.00

Ellipsoid: NAVD88

UNITS: Meter

Ground Control

Point No.	Geodetic Coordinates: NAD 1983 (Conus)		Ellipsoid Height (US ft)	Description
	Latitude (N)	Longitude (W)		
1001_2019_TN	N35°22'27.24158"	W90°10'13.37651"	162.14	LCP
1002_2019_TN	N35°26'35.26332"	W90°08'00.29865"	143.50	LCP
1003_2019_TN	N35°29'38.94829"	W90°04'31.81693"	141.29	LCP
1003A_2019_TN	N35°29'35.21329"	W90°03'32.09579"	164.60	LCP
1004_2019_TN	N35°27'58.40542"	W90°01'33.60613"	145.98	LCP
1005A_2019_TN	N35°27'03.83869"	W89°58'29.77039"	146.38	LCP
1006_2019_TN	N35°30'22.01113"	W89°55'50.83883"	204.34	LCP
1007_2019_TN	N35°30'41.54129"	W89°53'01.52440"	227.26	LCP
1008_2019_TN	N35°32'14.74638"	W89°50'14.77386"	236.82	LCP
1009_2019_TN	N35°33'08.59804"	W89°47'23.06781"	205.49	LCP
1010_2019_TN	N35°33'50.44221"	W89°44'29.33213"	309.25	LCP
1011_2019_TN	N35°33'38.13137"	W89°41'37.28597"	292.99	LCP
1012_2019_TN	N35°40'17.14859"	W89°38'59.85550"	191.51	LCP
1013_2019_TN	N35°41'29.29916"	W89°36'04.67276"	243.08	LCP
1014_2019_TN	N35°42'31.45967"	W89°33'14.84974"	329.29	LCP
1015_2019_TN	N35°43'16.18956"	W89°30'28.81804"	326.85	LCP
1016_2019_TN	N35°42'51.15272"	W89°27'55.41590"	297.55	LCP
1017_2019_TN	N35°41'58.54746"	W89°24'47.30001"	248.30	LCP
1018_2019_TN	N35°41'57.77710"	W89°21'58.23692"	256.90	LCP
1019_2019_TN	N35°40'49.73576"	W89°19'01.47030"	219.68	LCP
1020_2019_TN	N35°42'16.52386"	W89°15'38.56538"	216.73	LCP
1021_2019_TN	N35°43'19.48978"	W89°12'21.68721"	207.41	LCP
1022_2019_TN	N35°42'42.18960"	W89°08'52.11218"	256.57	LCP
1023_2019_TN	N35°42'27.60532"	W89°05'35.01244"	227.73	LCP
1024_2019_TN	N35°42'18.07154"	W89°02'10.97759"	257.92	LCP

Point No.	Geodetic Coordinates: NAD 1983 (Conus)		Ellipsoid Height (US ft)	Description
	Latitude (N)	Longitude (W)		
1025_2019_TN	N35°41'00.34486"	W88°58'52.60220"	296.40	LCP
1026_2019_TN	N35°40'07.31026"	W88°55'19.36017"	259.24	LCP
1027_2019_TN	N35°40'08.00179"	W88°52'15.61028"	308.29	LCP
1028_2019_TN	N35°40'11.12236"	W88°48'58.64036"	430.96	LCP
1029_2019_TN	N35°39'39.13771"	W88°45'41.36455"	490.46	LCP
1030_2019_TN	N35°35'05.31058"	W88°42'16.92471"	306.39	LCP
1031_2019_TN	N35°34'17.91823"	W88°38'57.22058"	328.87	LCP
1032_2019_TN	N35°33'22.88899"	W88°35'43.83022"	401.14	LCP
1033_2020_TN	N35°28'11.33312"	W88°32'13.26096"	456.64	LCP
1034_2020_TN	N35°25'59.20323"	W88°28'43.85949"	494.92	LCP
1035_2020_TN	N35°25'33.01642"	W88°25'18.94490"	387.12	LCP
1036_2019_TN	N35°24'57.84373"	W88°21'59.90151"	309.42	LCP
1037_2019_TN	N35°56'02.08985"	W88°46'01.39669"	343.04	LCP
1038_2020_TN	N35°55'45.61144"	W89°36'59.61858"	183.17	LCP
1039_2019_TN	N35°55'56.12250"	W89°10'37.40647"	206.14	LCP
1040_2020_TN	N35°58'50.92910"	W89°44'03.98905"	166.15	LCP
1041_2020_TN	N36°05'46.13964"	W89°41'12.32747"	175.56	LCP
1042_2020_TN	N36°03'22.75939"	W89°38'11.29504"	189.31	LCP
1043_2020_TN	N36°06'21.93692"	W89°34'44.67531"	177.10	LCP
1044_2020_TN	N36°09'34.21263"	W89°31'21.28733"	176.93	LCP
1045_2020_TN	N36°09'41.21076"	W89°27'57.78197"	179.02	LCP
1046_2020_TN	N36°12'47.43687"	W89°24'40.49558"	195.66	LCP
1047_2020_TN	N36°13'24.46274"	W89°21'21.66020"	253.77	LCP
1048_2020_TN	N36°12'39.25263"	W89°17'59.41734"	185.41	LCP
1049_2020_TN	N36°12'25.62178"	W89°14'38.76310"	194.27	LCP
1050_2020_TN	N36°12'11.63915"	W89°11'20.18880"	208.01	LCP
1051_2020_TN	N36°12'50.76474"	W89°08'02.86509"	200.30	LCP
1052_2020_TN	N36°12'19.45049"	W89°04'33.31038"	259.36	LCP
1053_2020_TN	N36°12'24.49346"	W89°01'10.41099"	235.62	LCP
1054_2020_TN	N36°11'06.23359"	W88°57'45.98133"	274.67	LCP
1055_2020_TN	N36°11'28.96334"	W88°54'24.30991"	238.88	LCP
1056_2020_TN	N36°10'43.33182"	W88°50'59.99179"	271.97	LCP
1057_2020_TN	N36°09'29.93635"	W88°47'37.52828"	299.24	LCP

Point No.	Geodetic Coordinates: NAD 1983 (Conus)		Ellipsoid Height (US ft)	Description
	Latitude (N)	Longitude (W)		
1058_2020_TN	N36°12'21.61123"	W88°44'12.08231"	277.19	LCP
1059_2020_TN	N36°14'21.33667"	W88°40'59.93191"	267.06	LCP
1060_2020_TN	N36°16'10.02501"	W88°37'44.24006"	262.19	LCP
1061_2019_TN	N36°17'23.85007"	W88°34'16.94417"	317.03	LCP
1062_2019_TN	N36°17'39.28932"	W88°31'27.97764"	347.94	LCP
1063_2019_TN	N36°28'30.86894"	W88°30'06.62128"	310.92	LCP
1064_2019_TN	N35°46'22.77540"	W85°37'15.96995"	820.79	LCP
1064A_2019_TN	N35°46'24.80551"	W85°37'14.85780"	815.81	LCP
1065_2019_TN	N35°33'27.22484"	W85°33'06.54858"	1779.70	LCP
1066_2019_TN	N35°31'59.90866"	W85°29'07.71836"	1840.13	LCP
1067_2019_TN	N35°35'06.61761"	W85°25'06.84680"	1805.42	LCP
1067A_2019_TN	N35°35'03.87025"	W85°25'11.23412"	1808.77	LCP
1068_2019_TN	N35°42'23.53635"	W85°20'41.10748"	1765.23	LCP
1069_2019_TN	N35°44'04.00060"	W85°17'40.39397"	1751.62	LCP
1070A_2019_TN	N35°45'02.16029"	W85°14'45.15730"	1650.92	LCP
1071_2019_TN	N35°18'54.06297"	W85°34'44.26328"	2181.26	LCP
1072A_2019_TN	N35°19'41.16469"	W85°29'11.67043"	1894.99	LCP
1072B_2019_TN	N35°17'37.15279"	W85°31'13.43685"	1949.57	LCP
1073A_2019_TN	N35°20'29.17905"	W85°27'01.34049"	1875.61	LCP
1073B_2019_TN	N35°22'13.32303"	W85°26'50.63213"	2127.66	LCP
1074_2019_TN	N35°21'58.62029"	W85°23'12.02693"	823.93	LCP
1075_2019_TN	N35°21'44.78807"	W85°19'30.74984"	1376.90	LCP
1076_2019_TN	N35°20'52.91147"	W85°16'16.19433"	1730.28	LCP
1077_2019_TN	N35°20'36.65600"	W85°13'37.36688"	1738.27	LCP
1078_2019_TN	N35°26'35.08187"	W85°25'54.76132"	1959.52	LCP
1078A_2019_TN	N35°26'42.54791"	W85°26'06.15084"	2009.65	LCP
2001_2020_TN	N36°20'25.17696"	W89°20'44.07831"	345.12	NVA
2002A_2019_TN	N35°34'55.46382"	W89°16'05.16420"	247.05	NVA
2002B_2019_TN	N35°34'55.49222"	W89°16'05.65229"	246.47	NVA
2003_2019_TN	N35°28'09.09931"	W88°58'11.54779"	407.35	NVA
2004_2019_TN	N35°36'52.60069"	W89°53'02.13948"	166.92	NVA
2005_2019_TN	N35°29'26.44832"	W88°43'12.86760"	292.24	NVA
2006A_2020_TN	N36°03'45.77404"	W89°34'16.26404"	168.25	NVA

Point No.	Geodetic Coordinates: NAD 1983 (Conus)		Ellipsoid Height (US ft)	Description
	Latitude (N)	Longitude (W)		
2006B_2020_TN	N36°03'45.37364"	W89°34'16.31768"	168.09	NVA
2007_2019_TN	N35°30'54.92135"	W88°58'18.99420"	375.10	NVA
2008_2020_TN	N36°15'42.73345"	W89°29'13.85177"	190.91	NVA
2009_2020_TN	N36°05'40.33204"	W89°07'50.92537"	257.00	NVA
2010_2019_TN	N35°33'22.34758"	W88°48'41.36002"	335.16	NVA
2011_2019_TN	N35°25'09.88169"	W88°24'32.46371"	481.09	NVA
2012_2019_TN	N35°33'26.61533"	W89°03'22.32092"	320.45	NVA
2013_2020_TN	N36°18'10.67115"	W89°32'33.37989"	200.55	NVA
2014_2019_TN	N35°46'47.68009"	W89°31'14.82308"	312.99	NVA
2015A_2019_TN	N35°15'05.92119"	W88°45'49.58936"	382.83	NVA
2015B_2019_TN	N35°15'05.87256"	W88°45'49.10067"	382.74	NVA
2016_2019_TN	N35°27'24.09181"	W88°23'24.24110"	424.83	NVA
2017_2019_TN	N35°34'02.74508"	W89°18'00.03866"	297.57	NVA
2018_2019_TN	N35°33'03.79783"	W88°58'23.46128"	414.07	NVA
2019_2020_TN	N36°05'34.14681"	W88°46'17.18664"	271.40	NVA
2020_2019_TN	N35°33'35.25265"	W89°08'13.40413"	355.53	NVA
2021_2020_TN	N36°07'17.70805"	W89°15'33.31132"	272.59	NVA
2022_2020_TN	N36°07'51.24194"	W88°59'11.98683"	229.96	NVA
2023_2019_TN	N35°40'04.98959"	W89°08'52.12168"	239.90	NVA
2024_2019_TN	N35°59'39.76405"	W88°43'04.92402"	424.20	NVA
2025_2019_TN	N35°37'45.18065"	W89°09'45.75987"	281.11	NVA
2026_2019_TN	N35°56'31.61213"	W88°50'36.28824"	274.60	NVA
2027_2019_TN	N35°59'42.81834"	W89°07'10.16177"	274.29	NVA
2028_2019_TN	N35°33'54.34037"	W88°33'23.52228"	399.50	NVA
2029_2019_TN	N35°27'45.04151"	W89°24'03.29391"	221.93	NVA
2030A_2020_TN	N36°12'23.28557"	W88°36'05.87017"	341.96	NVA
2030B_2020_TN	N36°12'22.90969"	W88°36'05.35415"	342.67	NVA
2031_2019_TN	N35°22'22.85552"	W88°22'02.25527"	329.19	NVA
2032_2019_TN	N35°28'54.38618"	W89°02'16.37139"	270.74	NVA
2033_2020_TN	N36°00'15.47400"	W89°40'19.45691"	186.81	NVA
2034_2020_TN	N36°02'00.41545"	W89°23'33.68120"	197.85	NVA
2035_2020_TN	N36°26'52.58844"	W89°02'40.71241"	281.70	NVA
2036_2019_TN	N35°55'41.06605"	W88°54'31.36072"	282.48	NVA

Point No.	Geodetic Coordinates: NAD 1983 (Conus)		Ellipsoid Height (US ft)	Description
	Latitude (N)	Longitude (W)		
2037_2019_TN	N36°29'37.58061"	W88°53'51.45282"	281.66	NVA
2038A_2019_TN	N35°58'23.20745"	W88°55'44.39851"	232.97	NVA
2038B_2019_TN	N35°58'23.85640"	W88°55'44.45418"	231.88	NVA
2039_2019_TN	N36°01'20.00925"	W88°48'23.83560"	315.45	NVA
2040_2020_TN	N36°25'00.49616"	W89°30'07.86396"	193.16	NVA
2041_2019_TN	N35°24'37.18260"	W88°38'23.74738"	344.28	NVA
2042A_2019_TN	N35°28'47.76862"	W90°06'18.77426"	162.99	NVA
2042B_2019_TN	N35°28'47.80574"	W90°06'18.17170"	162.94	NVA
2043_2020_TN	N36°09'08.38865"	W88°39'46.28613"	261.29	NVA
2044_2019_TN	N35°39'08.69418"	W89°46'38.82491"	214.73	NVA
2045_2019_TN	N35°48'31.32023"	W88°53'27.94896"	261.21	NVA
2046_2020_TN	N36°17'19.89761"	W88°56'21.58292"	264.33	NVA
2047_2019_TN	N35°54'35.88150"	W88°45'11.16772"	316.60	NVA
2048_2020_TN	N36°20'38.53741"	W89°09'11.20581"	269.64	NVA
2049_2019_TN	N35°38'15.45442"	W88°50'54.08743"	310.45	NVA
2050_2019_TN	N35°44'56.92820"	W89°38'09.08033"	219.61	NVA
2051_2020_TN	N36°13'37.84691"	W89°32'34.28661"	187.25	NVA
2052_2019_TN	N35°26'55.78216"	W89°48'55.81633"	352.46	NVA
2053_2020_TN	N36°20'18.81927"	W89°01'31.47190"	265.31	NVA
2054_2019_TN	N36°21'28.11086"	W88°37'14.87620"	304.93	NVA
2055_2020_TN	N35°54'00.50221"	W89°14'55.21876"	230.21	NVA
2056_2019_TN	N35°22'33.42765"	W88°42'26.30311"	390.44	NVA
2057_2019_TN	N35°36'59.44485"	W89°51'32.63295"	305.99	NVA
2058A_2019_TN	N36°20'28.02286"	W88°51'02.19195"	313.09	NVA
2058B_2019_TN	N36°20'27.53374"	W88°51'02.27977"	313.98	NVA
2059_2020_TN	N36°09'49.45368"	W89°10'38.05625"	204.52	NVA
2060_2019_TN	N35°28'59.52768"	W88°36'04.76776"	337.01	NVA
2061_2020_TN	N36°05'57.64069"	W89°25'14.29739"	320.21	NVA
2062_2019_TN	N35°37'56.30276"	W89°25'02.14216"	204.78	NVA
2063_2020_TN	N35°26'55.13953"	W89°39'12.75438"	243.72	NVA
2064_2019_TN	N36°28'01.06164"	W88°34'26.14007"	324.27	NVA
2064A_2019_TN	N36°28'00.57438"	W88°34'26.73448"	324.56	NVA
2065_2020_TN	N35°58'32.16682"	W89°23'33.21774"	245.50	NVA

Point No.	Geodetic Coordinates: NAD 1983 (Conus)		Ellipsoid Height (US ft)	Description
	Latitude (N)	Longitude (W)		
2066_2019_TN	N35°52'43.59247"	W89°33'21.29375"	170.81	NVA
2067_2020_TN	N36°21'21.10375"	W89°23'21.62329"	198.35	NVA
2068_2020_TN	N35°52'41.24282"	W89°23'43.14829"	211.97	NVA
2069_2020_TN	N36°18'07.24775"	W88°37'53.77010"	407.23	NVA
2070_2019_TN	N35°27'26.57047"	W88°52'06.81186"	384.71	NVA
2071_2019_TN	N35°36'50.29403"	W89°37'37.26921"	181.61	NVA
2072_2019_TN	N36°28'40.86209"	W88°43'05.76473"	327.35	NVA
2073_2019_TN	N35°39'58.67142"	W89°29'32.33287"	230.24	NVA
2074A_2019_TN	N35°40'19.31621"	W89°34'49.30220"	220.86	NVA
2074B_2019_TN	N35°40'19.03258"	W89°34'49.79821"	220.83	NVA
2075_2020_TN	N36°11'08.46973"	W89°26'59.08871"	183.84	NVA
2076_2019_TN	N35°41'56.06643"	W89°38'49.65233"	273.50	NVA
2077_2020_TN	N35°55'33.13418"	W89°25'18.43307"	232.35	NVA
2078_2019_TN	N35°27'33.61361"	W89°54'35.44114"	342.52	NVA
2079_2020_TN	N36°05'18.45343"	W89°29'41.23802"	207.49	NVA
2080_2020_TN	N36°26'01.27603"	W89°17'50.70625"	217.67	NVA
2081_2019_TN	N35°50'09.31406"	W89°10'57.06438"	249.38	NVA
2082_2019_TN	N35°53'26.53077"	W88°55'54.57455"	283.25	NVA
2083_2019_TN	N35°44'30.92803"	W89°02'21.95694"	275.53	NVA
2084_2020_TN	N36°08'16.45456"	W88°44'35.21572"	367.24	NVA
2085_2019_TN	N36°24'14.06581"	W88°35'12.71395"	351.97	NVA
2086_2020_TN	N36°24'10.53203"	W89°05'18.01708"	233.90	NVA
2087_2020_TN	N36°23'51.11602"	W89°14'37.28829"	305.24	NVA
2088_2019_TN	N35°24'25.75263"	W89°47'53.49679"	311.62	NVA
2089_2019_TN	N35°58'52.66743"	W88°58'17.22856"	249.56	NVA
2090_2019_TN	N35°44'28.99599"	W88°52'31.50056"	272.13	NVA
2091_2020_TN	N36°19'43.85630"	W89°28'19.24980"	193.70	NVA
2092_2019_TN	N35°26'34.82558"	W89°13'42.67589"	267.81	NVA
2093_2019_TN	N35°29'43.94740"	W89°43'22.00373"	208.73	NVA
2094_2019_TN	N35°50'53.14791"	W89°31'59.97529"	415.22	NVA
2095_2020_TN	N36°15'21.81700"	W88°53'53.11941"	248.17	NVA
2096_2020_TN	N36°09'39.47995"	W89°34'19.45341"	182.36	NVA
2097_2019_TN	N35°23'32.22772"	W88°26'11.84306"	422.84	NVA

Point No.	Geodetic Coordinates: NAD 1983 (Conus)		Ellipsoid Height (US ft)	Description
	Latitude (N)	Longitude (W)		
2098_2020_TN	N35°49'16.87261"	W89°23'19.91503"	207.17	NVA
2099_2019_TN	N35°43'08.91206"	W88°37'52.92643"	442.45	NVA
2100_2020_TN	N35°55'01.90549"	W89°04'04.35086"	241.99	NVA
2101_2019_TN	N35°42'37.42504"	W89°41'39.28468"	240.24	NVA
2102_2019_TN	N35°36'40.77492"	W88°55'33.42077"	317.00	NVA
2103_2019_TN	N36°16'58.28084"	W88°42'57.30509"	352.97	NVA
2103A_2019_TN	N36°16'59.70238"	W88°42'53.69301"	343.44	NVA
2104_2019_TN	N36°26'18.86402"	W88°47'51.20372"	311.97	NVA
2105_2019_TN	N35°46'22.42063"	W89°38'48.71770"	365.75	NVA
2106_2020_TN	N36°08'15.13361"	W88°50'48.34023"	221.29	NVA
2107_2020_TN	N36°02'06.88930"	W89°12'33.23249"	199.11	NVA
2108_2019_TN	N35°36'23.51000"	W89°45'01.93574"	198.71	NVA
2109A_2019_TN	N35°46'56.12137"	W89°07'11.33519"	281.85	NVA
2109B_2019_TN	N35°46'56.11798"	W89°07'10.83744"	282.13	NVA
2110_2019_TN	N35°54'59.05130"	W89°30'10.53595"	181.04	NVA
2111_2020_TN	N36°28'07.72119"	W89°11'08.26602"	383.08	NVA
2112_2019_TN	N35°40'26.32436"	W89°12'33.78460"	266.91	NVA
2113_2019_TN	N35°32'19.13293"	W89°40'23.13589"	289.04	NVA
2114_2020_TN	N36°12'44.94195"	W88°42'32.22067"	281.97	NVA
2115_2020_TN	N36°28'14.85703"	W89°15'35.73300"	269.71	NVA
2116_2019_TN	N36°23'04.85609"	W88°58'45.36663"	221.77	NVA
2117_2019_TN	N35°43'30.39498"	W88°45'48.62920"	335.70	NVA
2118A_2019_TN	N35°38'55.70996"	W89°03'57.18605"	342.45	NVA
2118B_2019_TN	N35°38'55.76523"	W89°03'56.08173"	343.34	NVA
2119_2019_TN	N35°24'06.52744"	W88°31'20.71244"	446.61	NVA
2120_2019_TN	N35°47'42.60410"	W89°33'52.59171"	389.99	NVA
2121_2019_TN	N35°33'48.20691"	W89°29'50.37318"	185.91	NVA
2122_2020_TN	N35°29'43.11023"	W89°35'54.01328"	235.40	NVA
2123_2019_TN	N35°38'16.29248"	W89°20'16.73738"	250.11	NVA
2124_2020_TN	N36°22'49.38555"	W89°27'57.49928"	206.98	NVA
2125_2020_TN	N36°29'10.59203"	W89°06'57.69467"	273.43	NVA
2126_2019_TN	N35°30'14.48801"	W89°47'39.70976"	256.04	NVA
2127_2020_TN	N36°26'45.22647"	W89°26'21.63060"	210.07	NVA

Point No.	Geodetic Coordinates: NAD 1983 (Conus)		Ellipsoid Height (US ft)	Description
	Latitude (N)	Longitude (W)		
2128_2019_TN	N36°03'28.95063"	W88°56'17.28835"	346.77	NVA
2129_2019_TN	N36°04'26.42662"	W89°00'28.12156"	229.48	NVA
2130_2019_TN	N35°52'33.46530"	W88°50'50.12430"	304.81	NVA
2131_2019_TN	N35°39'50.30647"	W85°26'40.24411"	1777.47	NVA
2132_2019_TN	N35°26'27.14545"	W85°20'47.29626"	649.45	NVA
2133A_2019_TN	N35°41'15.14462"	W85°32'48.17604"	1776.41	NVA
2134_2019_TN	N35°23'46.63102"	W85°22'36.18471"	673.20	NVA
2135_2019_TN	N35°47'32.97893"	W85°17'00.81264"	1682.63	NVA
2136_2019_TN	N35°37'44.26299"	W85°28'38.86820"	1785.12	NVA
2136A_2019_TN	N35°37'44.59073"	W85°28'36.06863"	1783.37	NVA
2136B_2019_TN	N35°37'44.43254"	W85°28'36.05780"	1783.58	NVA
2137_2019_TN	N35°49'34.04373"	W85°27'12.10939"	905.12	NVA
2138_2019_TN	N35°13'10.61462"	W85°23'27.37134"	1913.11	NVA
2138A_2019_TN	N35°13'05.73011"	W85°23'26.17269"	1885.37	NVA
2139_2019_TN	N35°29'36.87963"	W85°32'00.03090"	1730.67	NVA
2140_2019_TN	N35°28'29.66513"	W85°27'39.70438"	2019.98	NVA
2141A_2019_TN	N35°44'44.90752"	W85°27'39.18815"	1697.35	NVA
2141B_2019_TN	N35°44'44.41609"	W85°27'39.23640"	1700.40	NVA
2142A_2019_TN	N35°22'33.25218"	W85°14'53.77262"	1835.87	NVA
2142B_2019_TN	N35°22'33.39290"	W85°14'53.19438"	1836.95	NVA
2143_2019_TN	N35°48'08.40920"	W85°34'16.10830"	754.78	NVA
2143A_2019_TN	N35°48'08.40001"	W85°34'16.09958"	754.78	NVA
2144_2019_TN	N35°18'47.49126"	W85°26'03.93516"	618.20	NVA
2145_2019_TN	N35°17'17.46470"	W85°16'20.99139"	1656.06	NVA
2146_2019_TN	N35°18'50.81681"	W85°23'10.64272"	624.03	NVA
3001_2019_TN	N35°27'54.13023"	W89°54'36.26482"	341.62	VVA
3002_2019_TN	N35°30'30.82320"	W89°56'21.94563"	168.35	VVA
3003_2019_TN	N35°33'04.10320"	W89°47'45.07319"	211.07	VVA
3004_2019_TN	N35°33'58.84824"	W88°33'12.06253"	383.78	VVA
3005A_2019_TN	N35°29'37.26136"	W85°31'59.34906"	1734.09	VVA
3006_2019_TN	N35°28'33.18407"	W85°27'40.34951"	2012.34	VVA
3006A_2019_TN	N35°28'32.15638"	W85°27'38.72762"	1998.25	VVA
3007_2019_TN	N35°13'39.19740"	W85°23'42.84319"	1958.92	VVA

Point No.	Geodetic Coordinates: NAD 1983 (Conus)		Ellipsoid Height (US ft)	Description
	Latitude (N)	Longitude (W)		
3008_2019_TN	N35°15'06.25121"	W88°45'48.58117"	376.71	VVA
3009_2019_TN	N35°27'24.93944"	W88°23'24.66366"	425.67	VVA
3010_2019_TN	N35°33'38.67141"	W89°08'09.75474"	359.96	VVA
3011_2019_TN	N35°41'56.95664"	W89°38'48.69057"	258.18	VVA
3012_2019_TN	N35°47'32.84677"	W85°17'01.98701"	1675.97	VVA
3012A_2019_TN	N35°47'30.42428"	W85°17'03.23827"	1678.41	VVA
3013A_2019_TN	N35°41'13.98788"	W85°32'47.62528"	1776.12	VVA
3014_2019_TN	N35°33'33.89843"	W85°33'11.61101"	1788.34	VVA
3014A_2019_TN	N35°33'32.38131"	W85°33'10.48618"	1787.95	VVA
3015_2019_TN	N35°24'58.09133"	W88°22'00.43392"	304.42	VVA
3016_2019_TN	N35°28'37.77830"	W88°36'13.82643"	307.11	VVA
3017_2019_TN	N36°25'17.23425"	W88°35'01.17745"	281.98	VVA
3018_2020_TN	N36°20'17.69750"	W89°01'37.00428"	211.78	VVA
3019_2020_TN	N36°20'23.12244"	W89°20'40.53213"	347.89	VVA
3020_2019_TN	N35°40'12.18475"	W88°48'55.10524"	428.62	VVA
3021_2019_TN	N35°33'53.77027"	W89°29'21.16431"	175.49	VVA
3022_2019_TN	N35°36'58.95400"	W89°51'31.32273"	307.28	VVA
3023_2019_TN	N35°47'31.40452"	W89°33'21.90408"	354.39	VVA
3024_2020_TN	N36°26'00.74312"	W89°17'51.57866"	222.07	VVA
3025_2020_TN	N36°28'16.60860"	W89°15'34.88187"	241.10	VVA
3026_2020_TN	N36°18'09.13163"	W88°37'51.47772"	399.47	VVA
3027_2020_TN	N36°14'24.05148"	W88°41'04.22051"	258.17	VVA
3028_2019_TN	N36°28'31.75427"	W88°43'18.01040"	326.02	VVA
3029_2019_TN	N36°26'19.41798"	W88°47'52.54962"	310.50	VVA
3030_2020_TN	N36°28'08.92883"	W89°11'08.21312"	385.11	VVA
3031_2020_TN	N36°13'05.12828"	W89°24'47.74982"	210.41	VVA
3032_2020_TN	N36°05'16.05575"	W89°29'33.38674"	226.26	VVA
3033_2020_TN	N36°06'29.41671"	W89°34'32.35682"	188.83	VVA
3034_2020_TN	N36°23'49.86237"	W89°14'41.26997"	293.79	VVA
3035_2019_TN	N35°38'53.91999"	W89°03'54.66671"	319.86	VVA
3036_2019_TN	N35°40'05.37157"	W89°08'53.53815"	230.43	VVA
3037A_2019_TN	N35°43'39.65277"	W89°30'45.22787"	358.44	VVA
3037B_2019_TN	N35°42'51.51418"	W89°31'52.84129"	260.08	VVA

Point No.	Geodetic Coordinates: NAD 1983 (Conus)		Ellipsoid Height (US ft)	Description
	Latitude (N)	Longitude (W)		
3038_2019_TN	N35°40'13.22445"	W89°34'47.32581"	201.54	VVA
3039_2019_TN	N35°40'18.87593"	W89°38'57.91359"	188.16	VVA
3040_2019_TN	N35°46'25.54270"	W85°36'59.63862"	756.88	VVA
3041_2019_TN	N35°48'11.86494"	W85°34'27.17531"	768.71	VVA
3042_2019_TN	N35°49'35.97898"	W85°26'57.55274"	826.45	VVA
3043_2019_TN	N35°18'48.87631"	W85°23'08.02564"	629.81	VVA
3043A_2019_TN	N35°18'49.59533"	W85°23'08.38659"	630.28	VVA
3044_2019_TN	N35°26'12.39364"	W85°20'59.08873"	682.32	VVA
3044A_2019_TN	N35°26'29.99530"	W85°20'50.00603"	667.87	VVA
3045_2019_TN	N35°22'33.84127"	W85°14'53.62287"	1840.27	VVA
3046_2019_TN	N35°22'25.38822"	W88°42'25.62212"	384.15	VVA
3047_2019_TN	N35°23'31.75127"	W88°26'10.78921"	428.73	VVA
3048_2020_TN	N35°28'17.52287"	W88°32'24.28881"	445.49	VVA
3049_2019_TN	N35°24'18.09802"	W88°37'37.18978"	315.58	VVA
3050_2019_TN	N35°30'54.13150"	W88°58'18.76692"	375.39	VVA
3051_2019_TN	N35°36'22.62497"	W89°45'01.78339"	197.23	VVA
3052_2019_TN	N35°24'24.49918"	W89°47'52.76724"	311.76	VVA
3053_2019_TN	N35°27'54.45618"	W89°24'12.74641"	248.78	VVA
3054_2019_TN	N35°26'35.41016"	W89°13'53.08085"	267.11	VVA
3055_2019_TN	N35°29'18.91686"	W88°42'58.66215"	291.50	VVA
3056_2019_TN	N35°35'02.75497"	W88°42'29.41025"	285.37	VVA
3057_2019_TN	N35°56'32.54029"	W88°50'37.51482"	273.26	VVA
3058_2020_TN	N36°05'31.83984"	W88°46'16.16316"	264.11	VVA
3059_2020_TN	N36°09'08.19777"	W88°39'43.46488"	259.88	VVA
3060_2020_TN	N36°12'42.06496"	W88°42'34.94577"	268.35	VVA
3061_2020_TN	N36°16'11.22362"	W88°37'44.61352"	263.58	VVA
3062_2019_TN	N36°17'38.76359"	W88°31'28.93479"	345.55	VVA
3063_2020_TN	N36°26'47.53066"	W89°02'33.79461"	274.93	VVA
3064_2019_TN	N36°29'37.42516"	W88°53'45.24104"	263.71	VVA
3065_2020_TN	N36°17'18.39263"	W88°56'20.98023"	265.30	VVA
3066_2020_TN	N36°24'59.51346"	W89°30'06.89537"	187.87	VVA
3067_2020_TN	N36°26'44.16078"	W89°26'22.19428"	207.92	VVA
3068_2020_TN	N36°19'50.56623"	W89°28'22.27775"	192.95	VVA

Point No.	Geodetic Coordinates: NAD 1983 (Conus)		Ellipsoid Height (US ft)	Description
	Latitude (N)	Longitude (W)		
3069_2020_TN	N36°18'10.21878"	W89°32'33.64160"	194.57	VVA
3070_2020_TN	N36°13'37.94447"	W89°32'35.86273"	185.22	VVA
3071_2020_TN	N36°00'14.59936"	W89°40'19.12232"	180.54	VVA
3072_2019_TN	N35°54'58.24993"	W89°30'11.49754"	174.20	VVA
3073_2020_TN	N35°49'16.26419"	W89°23'19.59921"	206.01	VVA
3074_2020_TN	N35°53'58.20996"	W89°14'58.83339"	222.51	VVA
3075_2020_TN	N35°55'01.16821"	W89°04'03.75446"	242.54	VVA
3076_2019_TN	N35°53'26.85358"	W88°55'53.85196"	279.76	VVA
3077_2019_TN	N35°44'29.23838"	W88°52'32.18365"	271.74	VVA
3078_2019_TN	N35°27'05.06596"	W88°52'09.36815"	376.61	VVA
3079_2019_TN	N35°28'54.11901"	W89°02'25.70398"	248.86	VVA
3080_2019_TN	N35°36'38.34093"	W88°55'32.18967"	313.15	VVA
3081_2020_TN	N35°29'01.01964"	W89°35'21.53344"	271.95	VVA
3082_2019_TN	N35°29'25.12624"	W89°43'29.81710"	212.45	VVA
3083_2019_TN	N35°27'56.60847"	W90°01'25.80804"	146.62	VVA
3084_2019_TN	N35°27'02.27032"	W90°07'46.22260"	132.67	VVA
3085_2019_TN	N35°22'26.58408"	W90°10'14.86479"	141.88	VVA
3086_2020_TN	N36°02'06.90225"	W89°12'32.18789"	196.21	VVA
3087_2020_TN	N36°05'38.98548"	W89°07'50.54960"	261.14	VVA
3088_2020_TN	N36°09'50.00025"	W89°10'37.50301"	205.80	VVA
3089_2020_TN	N36°12'50.30365"	W89°08'03.15918"	199.93	VVA
3090_2020_TN	N36°12'25.21569"	W89°14'39.01016"	193.06	VVA
3091_2020_TN	N36°07'53.17996"	W88°59'14.71147"	234.98	VVA
3092_2020_TN	N36°12'20.21561"	W89°04'33.67717"	256.71	VVA
3093_2020_TN	N36°11'06.83022"	W88°57'45.82542"	276.56	VVA
3094_2020_TN	N36°10'43.48263"	W88°50'59.45996"	272.56	VVA
3095_2019_TN	N36°03'22.87695"	W88°56'13.43088"	307.64	VVA
3096_2019_TN	N35°41'58.46261"	W89°21'57.97034"	254.72	VVA
3097_2019_TN	N35°42'16.97748"	W89°15'38.84833"	218.78	VVA
3098_2019_TN	N35°50'03.48887"	W89°11'04.92676"	251.88	VVA
3099_2020_TN	N36°20'39.96177"	W89°08'58.09102"	251.84	VVA
3100_2019_TN	N35°38'19.14773"	W89°20'21.81179"	237.89	VVA
3101_2019_TN	N35°44'30.48593"	W89°02'22.97763"	274.23	VVA

Point No.	Geodetic Coordinates: NAD 1983 (Conus)		Ellipsoid Height (US ft)	Description
	Latitude (N)	Longitude (W)		
3102_2019_TN	N35°42'43.14161"	W89°08'52.65580"	251.62	VVA
3103_2019_TN	N35°42'51.82661"	W89°27'53.78021"	291.74	VVA
3104_2019_TN	N36°20'19.29882"	W88°51'24.03207"	283.11	VVA
3105_2020_TN	N35°58'35.61486"	W89°23'17.39811"	239.46	VVA

Geodetic Control

Point No.	Geodetic Coordinates: NAD 1983 (Conus)		Ellipsoid Height (US ft)	Description
	Latitude (N)	Longitude (W)		
1	N35°37'22.31723"	W88°58'58.97118"	358.07	FE0594
101_2019_TN	N35°40'22.64203"	W85°28'29.06018"	1742.71	TSM
102_2019_TN	N35°23'44.45066"	W85°22'28.74730"	677.69	TSM
103_2019_TN	N35°26'49.09357"	W89°57'45.51475"	155.57	TSM
104_2019_TN	N35°44'10.38356"	W89°40'08.62854"	241.36	TSM
105_2019_TN	N36°23'26.81884"	W88°43'13.81926"	324.23	TSM
110_2019_TN	N35°24'52.22776"	W88°33'57.61868"	403.71	TSM
120_2020_TN	N36°14'00.21422"	W88°49'27.19142"	322.61	TSM
130_2020_TN	N36°19'40.32649"	W89°17'28.46512"	380.14	TSM
D 95	N35°59'58.88808"	W89°41'20.65615"	169.95	FE1523
GPS 17	N36°17'00.92974"	W89°12'15.25151"	217.65	GD1865
GPS 32	N35°55'40.36069"	W88°59'52.36070"	227.46	FE2744
GPS 37	N35°34'56.79117"	W85°13'04.09220"	730.62	FC1927
GPS 38	N35°36'22.02468"	W85°42'19.11778"	796.15	FC1928
GPS 46	N35°32'25.93791"	W89°14'21.79770"	290.17	FE2748
GPS 50	N35°11'23.59678"	W85°29'05.80655"	588.02	FC1931
M53 A	N35°48'07.63198"	W88°52'28.44502"	321.84	AI9846
M53 B	N35°48'19.54829"	W88°52'13.62384"	326.06	AI9819
M53 C	N35°47'55.21535"	W88°52'41.56836"	313.64	AI9838
PINSON 1	N35°29'56.62390"	W88°41'46.75033"	335.47	DG7715
PINSON 2	N35°29'57.62993"	W88°42'01.59073"	338.48	DG7716
Q 160	N35°52'50.91540"	W88°45'32.70378"	364.57	FE0695
R 264	N36°00'02.50661"	W89°23'48.05571"	184.45	GD1118
REGION 4	N35°38'21.48829"	W88°55'11.49441"	263.09	DG7702
S 8 5	N36°05'58.50515"	W89°25'14.30892"	323.82	GD1105
TT N 157	N35°21'29.91138"	W88°35'49.85269"	339.08	FE0511
U 13	N36°25'02.37684"	W89°05'13.61231"	248.55	GD0784
U 14X	N36°04'08.97667"	W88°59'40.16284"	263.27	DG5302
X 173	N36°23'00.29159"	W88°50'59.17118"	271.54	GD0312





Section 3: Ground / Geodetic Control Photos

This section contains the station recovery information sheets and photographs regarding the ground control positions established for the project. The stations appear as they are ordered in the final coordinate listing of Section 2.

The data is assembled on the following pages.




GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 1001_2019_TN	Northing (US ft) 405381.73	Easting (US ft) 725579.17	Elevation (US ft) 252.30	
Point Type LCP	Latitude N35°22'27.24158"	Longitude W90°10'13.37651"	Ellipsoid Height (US ft) 162.14	
Location Photo  NORTH				
 <p>1001_2019_TN, 3NW, 20190226</p>		 <p>1001_2019_TN, 3NE, 20190226</p>		



GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 1002_2019_TN	Northing (US ft) 429969.27	Easting (US ft) 737648.60	Elevation (US ft) 233.94	
Point Type LCP	Latitude N35°26'35.26332"	Longitude W90°08'00.29865"	Ellipsoid Height (US ft) 143.50	
Location Photo ↑ NORTH				







1002_2019_TN, 3SW, 20190226



1002_2019_TN, 3NW, 20190226







GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 1003_2019_TN	Northing (US ft) 447802.24	Easting (US ft) 755656.69	Elevation (US ft) 231.80	
Point Type LCP	Latitude N35°29'38.94828"	Longitude W90°04'31.81693"	Ellipsoid Height (US ft) 141.29	
Location Photo  NORTH				
 <p>1003_2019_TN, 3S, 20190226</p>		 <p>1003_2019_TN, 3E, 20190226</p>		







GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 1003A_2019_TN	Northing (US ft) 447219.75	Easting (US ft) 760575.03	Elevation (US ft) 255.06	
Point Type LCP	Latitude N35°29'35.21329"	Longitude W90°03'32.09579"	Ellipsoid Height (US ft) 164.60	
Location Photo  NORTH				
 <p>1003A_2019_TN, 3SW, 20190226</p>		 <p>1003A_2019_TN, 3NW, 20190226</p>		







GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 1004_2019_TN	Northing (US ft) 437035.24	Easting (US ft) 769962.02	Elevation (US ft) 236.22	
Point Type LCP	Latitude N35°27'58.40542"	Longitude W90°01'33.60613"	Ellipsoid Height (US ft) 145.98	
Location Photo  NORTH				
 <p>1004_2019_TN, 3W, 20190226</p>		 <p>1004_2019_TN, 3S, 20190226</p>		





GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 1005A_2019_TN	Northing (US ft) 430901.17	Easting (US ft) 784931.74	Elevation (US ft) 236.40	
Point Type LCP	Latitude N35°27'03.83869"	Longitude W89°58'29.77039"	Ellipsoid Height (US ft) 146.38	
Location Photo  NORTH				
 <p>1005A_2019_TN, 3N, 20190225</p>		 <p>1005A_2019_TN, 3E, 20190225</p>		



GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 1006_2019_TN	Northing (US ft) 450391.21	Easting (US ft) 798874.50	Elevation (US ft) 294.31	
Point Type LCP	Latitude N35°30'22.01113"	Longitude W89°55'50.83883"	Ellipsoid Height (US ft) 204.34	
Location Photo  NORTH				







1006_2019_TN, 3NW, 20190225



1006_2019_TN, 3NE, 20190225




GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 1007_2019_TN	Northing (US ft) 451805.62	Easting (US ft) 812939.99	Elevation (US ft) 317.01	
Point Type LCP	Latitude N35°30'41.54129"	Longitude W89°53'01.52440"	Ellipsoid Height (US ft) 227.26	
Location Photo  NORTH				
 <p>1007_2019_TN, 3NW, 20190225</p>		 <p>1007_2019_TN, 3NE, 20190225</p>		



GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 1008_2019_TN	Northing (US ft) 460678.69	Easting (US ft) 827084.08	Elevation (US ft) 326.44	
Point Type LCP	Latitude N35°32'14.74638"	Longitude W89°50'14.77386"	Ellipsoid Height (US ft) 236.82	
Location Photo ↑ NORTH				





1008_2019_TN, 3NW, 20190225



1008_2019_TN, 3NE, 20190225



GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 1009_2019_TN	Northing (US ft) 465566.73	Easting (US ft) 841474.58	Elevation (US ft) 294.97	
Point Type LCP	Latitude N35°33'08.59803"	Longitude W89°47'23.06781"	Ellipsoid Height (US ft) 205.49	
Location Photo  NORTH				







1009_2019_TN, 3SE, 20190225



1009_2019_TN, 3NE, 20190225







GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 1010_2019_TN	Northing (US ft) 469242.30	Easting (US ft) 855981.19	Elevation (US ft) 398.66	
Point Type LCP	Latitude N35°33'50.44220"	Longitude W89°44'29.33213"	Ellipsoid Height (US ft) 309.25	
Location Photo  NORTH				
 <p>1010_2019_TN, 3SE, 20190302</p>		 <p>1010_2019_TN, 3NE, 20190302</p>		





GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 1011_2019_TN	Northing (US ft) 467458.64	Easting (US ft) 870137.83	Elevation (US ft) 382.40	
Point Type LCP	Latitude N35°33'38.13137"	Longitude W89°41'37.28597"	Ellipsoid Height (US ft) 292.99	
Location Photo  NORTH				
 <p>1011_2019_TN, 3N, 20190302</p>		 <p>1011_2019_TN, 3E, 20190302</p>		



GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 1012_2019_TN	Northing (US ft) 507287.62	Easting (US ft) 884639.90	Elevation (US ft) 281.57	
Point Type LCP	Latitude N35°40'17.14859"	Longitude W89°38'59.85550"	Ellipsoid Height (US ft) 191.51	
Location Photo  NORTH				







1012_2019_TN, 3SW, 20190227



1012_2019_TN, 3NW, 20190227





GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 1013_2019_TN	Northing (US ft) 514042.61	Easting (US ft) 899351.93	Elevation (US ft) 333.37	
Point Type LCP	Latitude N35°41'29.29916"	Longitude W89°36'04.67276"	Ellipsoid Height (US ft) 243.08	
Location Photo  NORTH				
 <p>1013_2019_TN, 3W, 20190227</p>		 <p>1013_2019_TN, 3S, 20190227</p>		



GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 1014_2019_TN	Northing (US ft) 519811.65	Easting (US ft) 913578.60	Elevation (US ft) 419.83	
Point Type LCP	Latitude N35°42'31.45967"	Longitude W89°33'14.84974"	Ellipsoid Height (US ft) 329.29	
Location Photo  NORTH				




1014_2019_TN, 3NW, 20190301



1014_2019_TN, 3NE, 20190301



GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 1015_2019_TN	Northing (US ft) 523837.56	Easting (US ft) 927423.91	Elevation (US ft) 417.60	
Point Type LCP	Latitude N35°43'16.18956"	Longitude W89°30'28.81804"	Ellipsoid Height (US ft) 326.85	
Location Photo ↑ NORTH				





1015_2019_TN, 3W, 20190301



1015_2019_TN, 3N, 20190301



GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 1016_2019_TN	Northing (US ft) 520857.10	Easting (US ft) 939974.91	Elevation (US ft) 388.43	
Point Type LCP	Latitude N35°42'51.15272"	Longitude W89°27'55.41590"	Ellipsoid Height (US ft) 297.55	
Location Photo  NORTH				







1016_2019_TN, 3N, 20191219



1016_2019_TN, 3E, 20191219







GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 1017_2019_TN	Northing (US ft) 514996.30	Easting (US ft) 955292.17	Elevation (US ft) 339.36	
Point Type LCP	Latitude N35°41'58.54746"	Longitude W89°24'47.30001"	Ellipsoid Height (US ft) 248.30	
Location Photo  NORTH				
 <p>1017_2019_TN, 3S, 20191214</p>		 <p>1017_2019_TN, 3E, 20191214</p>		







GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 1018_2019_TN	Northing (US ft) 514435.61	Easting (US ft) 969224.85	Elevation (US ft) 348.18	
Point Type LCP	Latitude N35°41'57.77710"	Longitude W89°21'58.23692"	Ellipsoid Height (US ft) 256.90	
Location Photo  NORTH				
 <p>1018_2019_TN, 3W, 20191214</p>		 <p>1018_2019_TN, 3N, 20191214</p>		







GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 1019_2019_TN	Northing (US ft) 507062.10	Easting (US ft) 983562.35	Elevation (US ft) 311.11	
Point Type LCP	Latitude N35°40'49.73575"	Longitude W89°19'01.47030"	Ellipsoid Height (US ft) 219.68	
Location Photo  NORTH				
 <p>1019_2019_TN, 3S, 20191214</p>		 <p>1019_2019_TN, 3E, 20191214</p>		


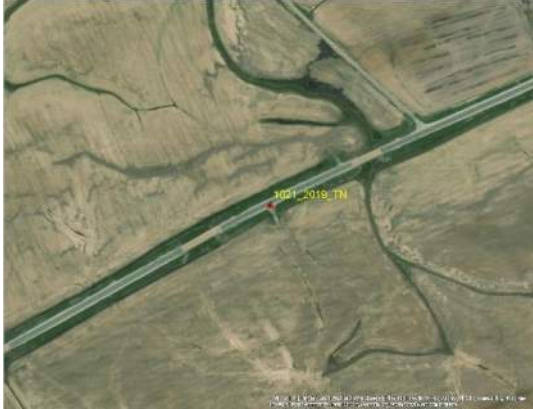


GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 1020_2019_TN	Northing (US ft) 515270.10	Easting (US ft) 1000584.10	Elevation (US ft) 308.45	
Point Type LCP	Latitude N35°42'16.52385"	Longitude W89°15'38.56538"	Ellipsoid Height (US ft) 216.73	
Location Photo  NORTH				
 <p>1020_2019_TN, 3W, 20191214</p>		 <p>1020_2019_TN, 3N, 20191214</p>		



GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 1021_2019_TN	Northing (US ft) 521096.95	Easting (US ft) 1017020.57	Elevation (US ft) 299.37	
Point Type LCP	Latitude N35°43'19.48978"	Longitude W89°12'21.68721"	Ellipsoid Height (US ft) 207.41	
Location Photo  NORTH				







1021_2019_TN, 3N, 20191214



1021_2019_TN, 3E, 20191214







GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 1022_2019_TN	Northing (US ft) 516766.57	Easting (US ft) 1034170.33	Elevation (US ft) 348.68	
Point Type LCP	Latitude N35°42'42.18960"	Longitude W89°08'52.11218"	Ellipsoid Height (US ft) 256.57	
Location Photo  NORTH				
 <p>1022_2019_TN, 3W, 20191213</p>		 <p>1022_2019_TN, 3S, 20191213</p>		







GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 1023_2019_TN	Northing (US ft) 514774.52	Easting (US ft) 1050369.09	Elevation (US ft) 319.99	
Point Type LCP	Latitude N35°42'27.60532"	Longitude W89°05'35.01244"	Ellipsoid Height (US ft) 227.73	
Location Photo  NORTH				
 <p>1023_2019_TN, 3W, 20191213</p>		 <p>1023_2019_TN, 3N, 20191213</p>		



GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 1024_2019_TN	Northing (US ft) 513284.18	Easting (US ft) 1067157.31	Elevation (US ft) 350.33	
Point Type LCP	Latitude N35°42'18.07153"	Longitude W89°02'10.97759"	Ellipsoid Height (US ft) 257.92	
Location Photo  NORTH				
 <p>1024_2019_TN, 3W, 20191213</p>		 <p>1024_2019_TN, 3N, 20191213</p>		



GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 1025_2019_TN	Northing (US ft) 504925.86	Easting (US ft) 1083270.41	Elevation (US ft) 388.92	
Point Type LCP	Latitude N35°41'00.34486"	Longitude W88°58'52.60220"	Ellipsoid Height (US ft) 296.40	
Location Photo  NORTH				





1025_2019_TN, 3W, 20191213



1025_2019_TN, 3N, 20191213



GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 1026_2019_TN	Northing (US ft) 499035.39	Easting (US ft) 1100693.34	Elevation (US ft) 351.87	
Point Type LCP	Latitude N35°40'07.31026"	Longitude W88°55'19.36017"	Ellipsoid Height (US ft) 259.24	
Location Photo  NORTH				






1026_2019_TN, 3W, 20191213



1026_2019_TN, 3S, 20191213


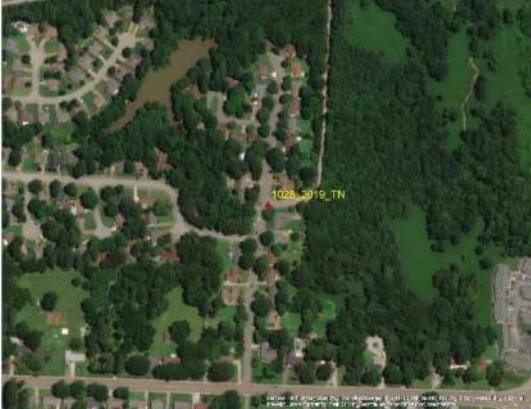


GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 1027_2019_TN	Northing (US ft) 498656.64	Easting (US ft) 1115849.66	Elevation (US ft) 400.96	
Point Type LCP	Latitude N35°40'08.00178"	Longitude W88°52'15.61028"	Ellipsoid Height (US ft) 308.29	
Location Photo  NORTH				
 <p>1027_2019_TN, 3W, 20191212</p>		 <p>1027_2019_TN, 3S, 20191212</p>		



GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 1028_2019_TN	Northing (US ft) 498499.89	Easting (US ft) 1132103.51	Elevation (US ft) 523.63	
Point Type LCP	Latitude N35°40'11.12235"	Longitude W88°48'58.64036"	Ellipsoid Height (US ft) 430.96	
Location Photo  NORTH				







1028_2019_TN, 3W, 20191212



1028_2019_TN, 3N, 20191212







GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 1029_2019_TN	Northing (US ft) 494803.41	Easting (US ft) 1148282.36	Elevation (US ft) 583.12	
Point Type LCP	Latitude N35°39'39.13771"	Longitude W88°45'41.36455"	Ellipsoid Height (US ft) 490.46	
Location Photo  NORTH				
 <p>1029_2019_TN, 3W, 20191212</p>		 <p>1029_2019_TN, 3S, 20191212</p>		




GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 1030_2019_TN	Northing (US ft) 466656.06	Easting (US ft) 1164380.38	Elevation (US ft) 398.97	
Point Type LCP	Latitude N35°35'05.31058"	Longitude W88°42'16.92471"	Ellipsoid Height (US ft) 306.39	
Location Photo  NORTH				
 <p>1030_2019_TN, 3W, 20191217</p>		 <p>1030_2019_TN, 3S, 20191217</p>		



GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 1031_2019_TN	Northing (US ft) 461414.84	Easting (US ft) 1180739.09	Elevation (US ft) 421.32	
Point Type LCP	Latitude N35°34'17.91823"	Longitude W88°38'57.22058"	Ellipsoid Height (US ft) 328.87	
Location Photo  NORTH				







1031_2019_TN, 3W, 20191217



1031_2019_TN, 3N, 20191217







GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 1032_2019_TN	Northing (US ft) 455424.76	Easting (US ft) 1196561.53	Elevation (US ft) 493.43	
Point Type LCP	Latitude N35°33'22.88899"	Longitude W88°35'43.83022"	Ellipsoid Height (US ft) 401.14	
Location Photo  NORTH				
 <p>1032_2019_TN, 3N, 20191217</p>		 <p>1032_2019_TN, 3E, 20191217</p>		







GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 1033_2020_TN	Northing (US ft) 423477.83	Easting (US ft) 1213137.21	Elevation (US ft) 548.51	
Point Type LCP	Latitude N35°28'11.33312"	Longitude W88°32'13.26096"	Ellipsoid Height (US ft) 456.64	
Location Photo  NORTH				
 <p>1033_2020_TN_3N_20200131</p>		 <p>1033_2020_TN_3_20200131</p>		







GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 1034_2020_TN	Northing (US ft) 409678.73	Easting (US ft) 1230113.58	Elevation (US ft) 586.45	
Point Type LCP	Latitude N35°25'59.20322"	Longitude W88°28'43.85949"	Ellipsoid Height (US ft) 494.92	
Location Photo  NORTH				
 <p>1034_2020_TN_3N_20200131</p>		 <p>1034_2020_TN_3E_20200131</p>		







GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 1035_2020_TN	Northing (US ft) 406607.29	Easting (US ft) 1246999.80	Elevation (US ft) 478.53	
Point Type LCP	Latitude N35°25'33.01642"	Longitude W88°25'18.94490"	Ellipsoid Height (US ft) 387.12	
Location Photo  NORTH				
 <p>1035_2020_TN_3N_20200131</p>		 <p>1035_2020_TN_3E_20200131</p>		




GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 1036_2019_TN	Northing (US ft) 402649.09	Easting (US ft) 1263381.58	Elevation (US ft) 400.80	
Point Type LCP	Latitude N35°24'57.84372"	Longitude W88°21'59.90151"	Ellipsoid Height (US ft) 309.42	
Location Photo  NORTH				
 <p>1036_2019_TN, 3N, 20191218</p>		 <p>1036_2019_TN, 3E, 20191218</p>		



GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 1037_2019_TN	Northing (US ft) 594199.75	Easting (US ft) 1149439.73	Elevation (US ft) 435.87	
Point Type LCP	Latitude N35°56'02.08985"	Longitude W88°46'01.39669"	Ellipsoid Height (US ft) 343.04	
Location Photo ↑ NORTH				





1037_2019_TN, 3N, 20191215



1037_2019_TN, 3E, 20191215



GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 1038_2020_TN	Northing (US ft) 600735.17	Easting (US ft) 898021.68	Elevation (US ft) 275.30	
Point Type LCP	Latitude N35°55'45.61144"	Longitude W89°36'59.61858"	Ellipsoid Height (US ft) 183.17	
Location Photo  NORTH				







1038_2020_TN, 3NW, 20200109



1038_2020_TN, 3NE, 20200109







GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 1039_2019_TN	Northing (US ft) 597282.14	Easting (US ft) 1028097.44	Elevation (US ft) 298.60	
Point Type LCP	Latitude N35°55'56.12250"	Longitude W89°10'37.40647"	Ellipsoid Height (US ft) 206.14	
Location Photo  NORTH				
 <p>1039_2019_TN, 3W, 20191216</p>		 <p>1039_2019_TN, 3N, 20191216</p>		







GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 1040_2020_TN	Northing (US ft) 620770.47	Easting (US ft) 863861.29	Elevation (US ft) 258.64	
Point Type LCP	Latitude N35°58'50.92910"	Longitude W89°44'03.98905"	Ellipsoid Height (US ft) 166.15	
Location Photo  NORTH				
 <p>1040_2020_TN, 3W, 20200109</p>		 <p>1040_2020_TN, 3N, 20200109</p>		







GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 1041_2020_TN	Northing (US ft) 662191.07	Easting (US ft) 879540.56	Elevation (US ft) 268.57	
Point Type LCP	Latitude N36°05'46.13964"	Longitude W89°41'12.32747"	Ellipsoid Height (US ft) 175.56	
Location Photo  NORTH				
 <p>1041_2020_TN, 3N, 20200109</p>		 <p>1041_2020_TN, 3E, 20200109</p>		







GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 1042_2020_TN	Northing (US ft) 647146.94	Easting (US ft) 893848.31	Elevation (US ft) 282.14	
Point Type LCP	Latitude N36°03'22.75938"	Longitude W89°38'11.29504"	Ellipsoid Height (US ft) 189.31	
Location Photo  NORTH				
 <p>1042_2020_TN, 3S, 20200109</p>		 <p>1042_2020_TN, 3E, 20200109</p>		



GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 1043_2020_TN	Northing (US ft) 664627.78	Easting (US ft) 911464.35	Elevation (US ft) 270.06	
Point Type LCP	Latitude N36°06'21.93691"	Longitude W89°34'44.67531"	Ellipsoid Height (US ft) 177.10	
Location Photo  NORTH				
 <p>1043_2020_TN, 3W, 20200109</p>		 <p>1043_2020_TN, 3N, 20200109</p>		



GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)

Station ID 1044_2020_TN	Northing (US ft) 683452.74	Easting (US ft) 928842.33	Elevation (US ft) 269.96
Point Type LCP	Latitude N36°09'34.21263"	Longitude W89°31'21.28733"	Ellipsoid Height (US ft) 176.93

Location Photo



NORTH







GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 1045_2020_TN	Northing (US ft) 683564.25	Easting (US ft) 945544.46	Elevation (US ft) 272.05	
Point Type LCP	Latitude N36°09'41.21076"	Longitude W89°27'57.78197"	Ellipsoid Height (US ft) 179.02	
Location Photo ↑ NORTH				





1045_2020_TN, 3W, 20200110



1045_2020_TN, 3N, 20200110



GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 1046_2020_TN	Northing (US ft) 701816.00	Easting (US ft) 962368.07	Elevation (US ft) 288.72	
Point Type LCP	Latitude N36°12'47.43686"	Longitude W89°24'40.49558"	Ellipsoid Height (US ft) 195.66	
Location Photo  NORTH				







1046_2020_TN, 3N, 20200110



1046_2020_TN, 3E, 20200110


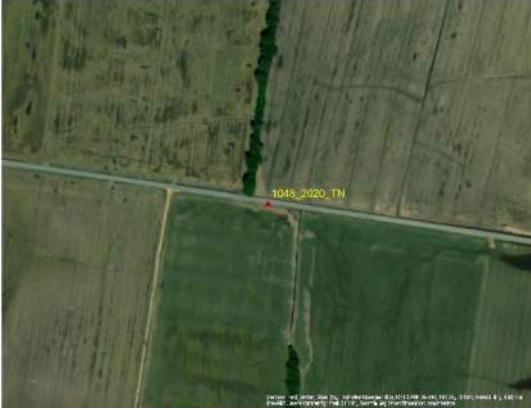




GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 1047_2020_TN	Northing (US ft) 704994.72	Easting (US ft) 978780.43	Elevation (US ft) 346.82	
Point Type LCP	Latitude N36°13'24.46273"	Longitude W89°21'21.66020"	Ellipsoid Height (US ft) 253.77	
Location Photo  NORTH				
 <p>1047_2020_TN, 3N, 20200110</p>		 <p>1047_2020_TN, 3E, 20200110</p>		







GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 1048_2020_TN	Northing (US ft) 699862.20	Easting (US ft) 995187.55	Elevation (US ft) 278.47	
Point Type LCP	Latitude N36°12'39.25262"	Longitude W89°17'59.41734"	Ellipsoid Height (US ft) 185.41	
Location Photo  NORTH				
 <p>1048_2020_TN, 3N, 20200110</p>		 <p>1048_2020_TN, 3E, 20200110</p>		







GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 1049_2020_TN	Northing (US ft) 697934.94	Easting (US ft) 1011575.93	Elevation (US ft) 287.30	
Point Type LCP	Latitude N36°12'25.62178"	Longitude W89°14'38.76310"	Ellipsoid Height (US ft) 194.27	
Location Photo  NORTH				
 <p>1049_2020_TN, 3N, 20200110</p>		 <p>1049_2020_TN, 3E, 20200110</p>		



GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 1050_2020_TN	Northing (US ft) 695986.99	Easting (US ft) 1027794.66	Elevation (US ft) 300.98	
Point Type LCP	Latitude N36°12'11.63914"	Longitude W89°11'20.18880"	Ellipsoid Height (US ft) 208.01	
Location Photo  NORTH				
 <p>1050_2020_TN, 3N, 20200110</p>		 <p>1050_2020_TN, 3E, 20200110</p>		



GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)

Station ID 1051_2020_TN	Northing (US ft) 699419.09	Easting (US ft) 1044084.79	Elevation (US ft) 293.20
Point Type LCP	Latitude N36°12'50.76474"	Longitude W89°08'02.86509"	Ellipsoid Height (US ft) 200.30

<p>Location Photo</p>  <p>NORTH</p>		
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1051_2020_TN, 3N, 20200110



1051_2020_TN, 3E, 20200110







GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 1052_2020_TN	Northing (US ft) 695709.38	Easting (US ft) 1061148.59	Elevation (US ft) 352.17	
Point Type LCP	Latitude N36°12'19.45049"	Longitude W89°04'33.31038"	Ellipsoid Height (US ft) 259.36	
Location Photo  NORTH				
 <p>1052_2020_TN, 3N, 20200112</p>		 <p>1052_2020_TN, 3E, 20200112</p>		



GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 1053_2020_TN	Northing (US ft) 695701.34	Easting (US ft) 1077784.65	Elevation (US ft) 328.40	
Point Type LCP	Latitude N36°12'24.49345"	Longitude W89°01'10.41099"	Ellipsoid Height (US ft) 235.62	
Location Photo  NORTH				
 <p>1053_2020_TN, 3W, 20200112</p>		 <p>1053_2020_TN, 3N, 20200112</p>		



GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 1054_2020_TN	Northing (US ft) 687279.23	Easting (US ft) 1094290.79	Elevation (US ft) 367.40	
Point Type LCP	Latitude N36°11'06.23358"	Longitude W88°57'45.98133"	Ellipsoid Height (US ft) 274.67	
Location Photo ↑ NORTH				







1054_2020_TN, 3N, 20200112



1054_2020_TN, 3E, 20200112







GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 1055_2020_TN	Northing (US ft) 689081.01	Easting (US ft) 1110883.61	Elevation (US ft) 331.57	
Point Type LCP	Latitude N36°11'28.96333"	Longitude W88°54'24.30991"	Ellipsoid Height (US ft) 238.88	
Location Photo  NORTH				
 <p>1055_2020_TN, 3W, 20200112</p>		 <p>1055_2020_TN, 3N, 20200112</p>		







GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 1056_2020_TN	Northing (US ft) 683976.15	Easting (US ft) 1127489.64	Elevation (US ft) 364.64	
Point Type LCP	Latitude N36°10'43.33182"	Longitude W88°50'59.99179"	Ellipsoid Height (US ft) 271.97	
Location Photo  NORTH				
 <p>1056_2020_TN, 3W, 20200112</p>		 <p>1056_2020_TN, 3S, 20200112</p>		







GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 1057_2020_TN	Northing (US ft) 676078.83	Easting (US ft) 1143869.16	Elevation (US ft) 391.93	
Point Type LCP	Latitude N36°09'29.93635"	Longitude W88°47'37.52828"	Ellipsoid Height (US ft) 299.24	
Location Photo  NORTH				
 <p>1057_2020_TN, 3N, 20200112</p>		 <p>1057_2020_TN, 3E, 20200112</p>		







GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 1058_2020_TN	Northing (US ft) 692956.10	Easting (US ft) 1161194.90	Elevation (US ft) 369.90	
Point Type LCP	Latitude N36°12'21.61122"	Longitude W88°44'12.08231"	Ellipsoid Height (US ft) 277.19	
Location Photo  NORTH				
 <p>1058_2020_TN, 3N, 20200113</p>		 <p>1058_2020_TN, 3E, 20200113</p>		







GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 1059_2020_TN	Northing (US ft) 704622.50	Easting (US ft) 1177268.12	Elevation (US ft) 359.82	
Point Type LCP	Latitude N36°14'21.33667"	Longitude W88°40'59.93191"	Ellipsoid Height (US ft) 267.06	
Location Photo  NORTH				
 <p>1059_2020_TN, 3N, 20200113</p>		 <p>1059_2020_TN, 3E, 20200113</p>		







GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 1060_2020_TN	Northing (US ft) 715174.45	Easting (US ft) 1193588.29	Elevation (US ft) 355.02	
Point Type LCP	Latitude N36°16'10.02501"	Longitude W88°37'44.24006"	Ellipsoid Height (US ft) 262.19	
Location Photo  NORTH				
 <p>1060_2020_TN, 3W, 20200113</p>		 <p>1060_2020_TN, 3S, 20200113</p>		







GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 1061_2019_TN	Northing (US ft) 722186.44	Easting (US ft) 1210753.41	Elevation (US ft) 409.92	
Point Type LCP	Latitude N36°17'23.85007"	Longitude W88°34'16.94417"	Ellipsoid Height (US ft) 317.03	
Location Photo  NORTH				
 <p>1061_2019_TN, 3S, 20190303</p>		 <p>1061_2019_TN, 3E, 20190303</p>		







GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 1062_2019_TN	Northing (US ft) 723387.12	Easting (US ft) 1224621.69	Elevation (US ft) 440.87	
Point Type LCP	Latitude N36°17'39.28932"	Longitude W88°31'27.97764"	Ellipsoid Height (US ft) 347.94	
Location Photo  NORTH				
 <p>1062_2019_TN, 3W, 20190303</p>		 <p>1062_2019_TN, 3N, 20190303</p>		







GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 1063_2019_TN	Northing (US ft) 789087.32	Easting (US ft) 1232963.75	Elevation (US ft) 404.14	
Point Type LCP	Latitude N36°28'30.86894"	Longitude W88°30'06.62128"	Ellipsoid Height (US ft) 310.92	
Location Photo  NORTH				
 <p>1063_2019_TN, 3S, 20190304</p>		 <p>1063_2019_TN, 3E, 20190304</p>		



GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 1064_2019_TN	Northing (US ft) 524260.95	Easting (US ft) 2080896.68	Elevation (US ft) 915.87	
Point Type LCP	Latitude N35°46'22.77540"	Longitude W85°37'15.96995"	Ellipsoid Height (US ft) 820.79	
Location Photo  NORTH				
 <p>1064_2019_TN, 3SW, 20190203</p>		 <p>1064_2019_TN, 3SE, 20190203</p>		



GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 1064A_2019_TN	Northing (US ft) 524466.58	Easting (US ft) 2080987.53	Elevation (US ft) 910.89	
Point Type LCP	Latitude N35°46'24.80551"	Longitude W85°37'14.85780"	Ellipsoid Height (US ft) 815.81	
Location Photo ↑ NORTH				



1064A_2019_TN, 3SE, 20190203



1064A_2019_TN, 3NE, 20190203



GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)

Station ID 1065_2019_TN	Northing (US ft) 445931.70	Easting (US ft) 2101808.09	Elevation (US ft) 1873.59
Point Type LCP	Latitude N35°33'27.22484"	Longitude W85°33'06.54858"	Ellipsoid Height (US ft) 1779.70

<p>Location Photo</p>  <p>NORTH</p>		
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GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 1066_2019_TN	Northing (US ft) 437200.33	Easting (US ft) 2121587.18	Elevation (US ft) 1934.07	
Point Type LCP	Latitude N35°31'59.90865"	Longitude W85°29'07.71836"	Ellipsoid Height (US ft) 1840.13	
Location Photo ↑ NORTH				







1066_2019_TN, 3N, 20190205



1066_2019_TN, 3E, 20190205







GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 1067_2019_TN	Northing (US ft) 456189.64	Easting (US ft) 2141382.34	Elevation (US ft) 1899.41	
Point Type LCP	Latitude N35°35'06.61761"	Longitude W85°25'06.84680"	Ellipsoid Height (US ft) 1805.42	
Location Photo  NORTH				
 <p>1067_2019_TN, 3NW, 20190205</p>		 <p>1067_2019_TN, 3NE, 20190205</p>		




GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 1067A_2019_TN	Northing (US ft) 455909.70	Easting (US ft) 2141021.62	Elevation (US ft) 1902.75	
Point Type LCP	Latitude N35°35'03.87024"	Longitude W85°25'11.23412"	Ellipsoid Height (US ft) 1808.77	
Location Photo  NORTH				
 <p>1067A_2019_TN, 3SE, 20190205</p>		 <p>1067A_2019_TN, 3NE, 20190205</p>		



GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 1068_2019_TN	Northing (US ft) 500504.62	Easting (US ft) 2163034.78	Elevation (US ft) 1859.34	
Point Type LCP	Latitude N35°42'23.53635"	Longitude W85°20'41.10748"	Ellipsoid Height (US ft) 1765.23	
Location Photo ↑ NORTH				







1068_2019_TN, 3SE, 20190203



1068_2019_TN, 3NE, 20190203







GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 1069_2019_TN	Northing (US ft) 510766.10	Easting (US ft) 2177864.52	Elevation (US ft) 1845.87	
Point Type LCP	Latitude N35°44'04.00060"	Longitude W85°17'40.39397"	Ellipsoid Height (US ft) 1751.62	
Location Photo  NORTH				
 <p>1069_2019_TN, 3W, 20190204</p>		 <p>1069_2019_TN, 3N, 20190204</p>		







GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 1070A_2019_TN	Northing (US ft) 516754.30	Easting (US ft) 2192265.40	Elevation (US ft) 1745.34	
Point Type LCP	Latitude N35°45'02.16029"	Longitude W85°14'45.15730"	Ellipsoid Height (US ft) 1650.92	
Location Photo  NORTH				
 <p>1070A_2019_TN, 3NW, 20190204</p>		 <p>1070A_2019_TN, 3NE, 20190204</p>		



GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 1071_2019_TN	Northing (US ft) 357611.74	Easting (US ft) 2094114.47	Elevation (US ft) 2275.39	
Point Type LCP	Latitude N35°18'54.06297"	Longitude W85°34'44.26328"	Ellipsoid Height (US ft) 2181.26	
Location Photo  NORTH				
 <p>1071_2019_TN, 3SE, 20190206</p>		 <p>1071_2019_TN, 3NE, 20190206</p>		



GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)

Station ID 1072A_2019_TN	Northing (US ft) 362505.68	Easting (US ft) 2121652.41	Elevation (US ft) 1989.54
Point Type LCP	Latitude N35°19'41.16468"	Longitude W85°29'11.67043"	Ellipsoid Height (US ft) 1894.99

<p>Location Photo</p>  <p>NORTH</p>		
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GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)

Station ID 1072B_2019_TN	Northing (US ft) 349915.92	Easting (US ft) 2111624.38	Elevation (US ft) 2044.07
Point Type LCP	Latitude N35°17'37.15278"	Longitude W85°31'13.43685"	Ellipsoid Height (US ft) 1949.57

<p>Location Photo</p>  <p>NORTH</p>		
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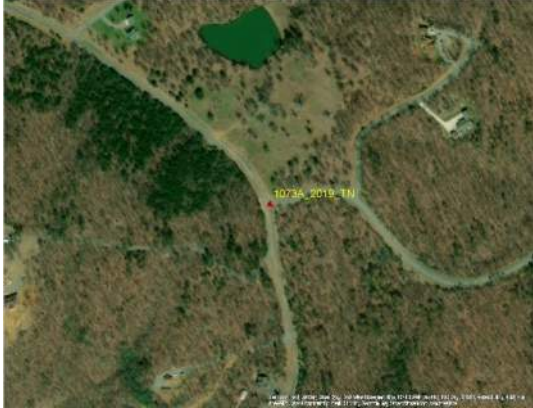


1072B_2019_TN, 3NW, 20190207



1072B_2019_TN, 3NE, 20190207







GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 1073A_2019_TN	Northing (US ft) 367418.94	Easting (US ft) 2132424.16	Elevation (US ft) 1970.48	
Point Type LCP	Latitude N35°20'29.17904"	Longitude W85°27'01.34049"	Ellipsoid Height (US ft) 1875.61	
Location Photo  NORTH				
 <p>1073A_2019_TN, 3N, 20190224</p>		 <p>1073A_2019_TN, 3E, 20190224</p>		





GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 1073B_2019_TN	Northing (US ft) 377953.67	Easting (US ft) 2133251.84	Elevation (US ft) 2222.39	
Point Type LCP	Latitude N35°22'13.32303"	Longitude W85°26'50.63213"	Ellipsoid Height (US ft) 2127.66	
Location Photo  NORTH				
 <p>1073B_2019_TN, 3SW, 20190224</p>		 <p>1073B_2019_TN, 3SE, 20190224</p>		



GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 1074_2019_TN	Northing (US ft) 376574.96	Easting (US ft) 2151364.98	Elevation (US ft) 919.39	
Point Type LCP	Latitude N35°21'58.62029"	Longitude W85°23'12.02693"	Ellipsoid Height (US ft) 823.93	
Location Photo  NORTH				







1074_2019_TN, 3W, 20190206



1074_2019_TN, 3N, 20190206







GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 1075_2019_TN	Northing (US ft) 375297.03	Easting (US ft) 2169700.58	Elevation (US ft) 1472.51	
Point Type LCP	Latitude N35°21'44.78806"	Longitude W85°19'30.74984"	Ellipsoid Height (US ft) 1376.90	
Location Photo  NORTH				
 <p>1075_2019_TN, 3SW, 20190224</p>		 <p>1075_2019_TN, 3NW, 20190224</p>		







GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 1076_2019_TN	Northing (US ft) 370167.53	Easting (US ft) 2185853.24	Elevation (US ft) 1826.13	
Point Type LCP	Latitude N35°20'52.91147"	Longitude W85°16'16.19433"	Ellipsoid Height (US ft) 1730.28	
Location Photo  NORTH				
 <p>1076_2019_TN, 3W, 20190224</p>		 <p>1076_2019_TN, 3N, 20190224</p>		







GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 1077_2019_TN	Northing (US ft) 368624.96	Easting (US ft) 2199023.05	Elevation (US ft) 1834.55	
Point Type LCP	Latitude N35°20'36.65599"	Longitude W85°13'37.36688"	Ellipsoid Height (US ft) 1738.27	
Location Photo  NORTH				
 <p>1077_2019_TN, 3SW, 20190224</p>		 <p>1077_2019_TN, 3NW, 20190224</p>		







GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 1078_2019_TN	Northing (US ft) 404445.96	Easting (US ft) 2137725.16	Elevation (US ft) 2054.12	
Point Type LCP	Latitude N35°26'35.08187"	Longitude W85°25'54.76132"	Ellipsoid Height (US ft) 1959.52	
Location Photo  NORTH				
 <p>1078_2019_TN, 3SW, 20190205</p>		 <p>1078_2019_TN, 3SE, 20190205</p>		




GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 1078A_2019_TN	Northing (US ft) 405195.38	Easting (US ft) 2136778.43	Elevation (US ft) 2104.22	
Point Type LCP	Latitude N35°26'42.54791"	Longitude W85°26'06.15084"	Ellipsoid Height (US ft) 2009.65	
Location Photo  NORTH				
 <p>1078A_2019_TN, 3SE, 20190205</p>		 <p>1078A_2019_TN, 3NE, 20190205</p>		

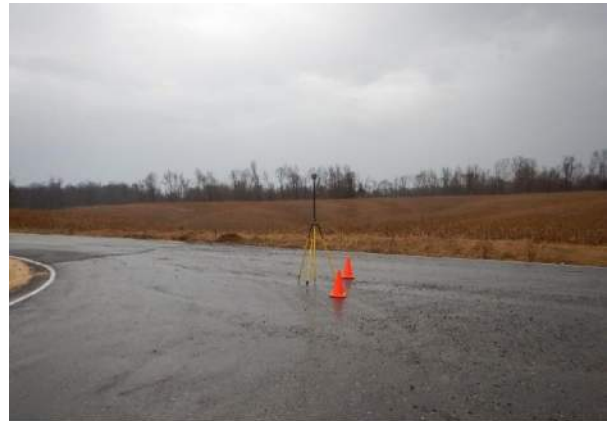


GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 2001_2020_TN	Northing (US ft) 747408.90	Easting (US ft) 983311.99	Elevation (US ft) 438.04	
Point Type NVA	Latitude N36°20'25.17695"	Longitude W89°20'44.07831"	Ellipsoid Height (US ft) 345.12	
Location Photo ↑ NORTH				







2001_2020_TN, 3W, 20200110



2001_2020_TN, 3N, 20200110







GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 2002A_2019_TN	Northing (US ft) 470772.09	Easting (US ft) 996902.77	Elevation (US ft) 338.46	
Point Type NVA	Latitude N35°34'55.46382"	Longitude W89°16'05.16420"	Ellipsoid Height (US ft) 247.05	
Location Photo  NORTH				
 <p>2002A_2019_TN, 3N, 20191214</p>		 <p>2002A_2019_TN, 3E, 20191214</p>		







GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 2002B_2019_TN	Northing (US ft) 470776.31	Easting (US ft) 996862.57	Elevation (US ft) 337.88	
Point Type NVA	Latitude N35°34'55.49222"	Longitude W89°16'05.65229"	Ellipsoid Height (US ft) 246.47	
Location Photo  NORTH				
 <p>2002B_2019_TN, 3N, 20191214</p>		 <p>2002B_2019_TN, 3E, 20191214</p>		





GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 2003_2019_TN	Northing (US ft) 426877.88	Easting (US ft) 1084289.52	Elevation (US ft) 499.52	
Point Type NVA	Latitude N35°28'09.09930"	Longitude W88°58'11.54779"	Ellipsoid Height (US ft) 407.35	
Location Photo  NORTH				
 <p>2003_2019_TN, 3N, 20191211</p>		 <p>2003_2019_TN, 3E, 20191211</p>		



GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 2004_2019_TN	Northing (US ft) 489296.00	Easting (US ft) 814377.70	Elevation (US ft) 257.14	
Point Type NVA	Latitude N35°36'52.60069"	Longitude W89°53'02.13948"	Ellipsoid Height (US ft) 166.92	
Location Photo  NORTH				





2004_2019_TN, 3W, 20190301



2004_2019_TN, 3N, 20190301



GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 2005_2019_TN	Northing (US ft) 432534.97	Easting (US ft) 1158809.34	Elevation (US ft) 384.75	
Point Type NVA	Latitude N35°29'26.44831"	Longitude W88°43'12.86760"	Ellipsoid Height (US ft) 292.24	
Location Photo  NORTH				







2005_2019_TN, 3N, 20191210



2005_2019_TN, 3E, 20191210







GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 2006A_2020_TN	Northing (US ft) 648762.14	Easting (US ft) 913218.04	Elevation (US ft) 261.07	
Point Type NVA	Latitude N36°03'45.77403"	Longitude W89°34'16.26404"	Ellipsoid Height (US ft) 168.25	
Location Photo  NORTH				
 <p>2006A_2020_TN, 3W, 20200109</p>		 <p>2006A_2020_TN, 3N, 20200109</p>		







GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH	
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)	
Station ID 2006B_2020_TN	Northing (US ft) 648721.84	Easting (US ft) 913212.16	Elevation (US ft) 260.91		
Point Type NVA	Latitude N36°03'45.37364"	Longitude W89°34'16.31768"	Ellipsoid Height (US ft) 168.09		
Location Photo  NORTH					
 <p>2006B_2020_TN, 3W, 20200109</p>		 <p>2006B_2020_TN, 3N, 20200109</p>			







GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 2007_2019_TN	Northing (US ft) 443655.05	Easting (US ft) 1084182.94	Elevation (US ft) 467.34	
Point Type NVA	Latitude N35°30'54.92134"	Longitude W88°58'18.99420"	Ellipsoid Height (US ft) 375.10	
Location Photo  NORTH				
 <p>2007_2019_TN, 3N, 20191211</p>		 <p>2007_2019_TN, 3E, 20191211</p>		







GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 2008_2020_TN	Northing (US ft) 720320.56	Easting (US ft) 940613.06	Elevation (US ft) 284.00	
Point Type NVA	Latitude N36°15'42.73344"	Longitude W89°29'13.85177"	Ellipsoid Height (US ft) 190.91	
Location Photo  NORTH				
 <p>2008_2020_TN, 3N, 20200109</p>		 <p>2008_2020_TN, 3E, 20200109</p>		







GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 2009_2020_TN	Northing (US ft) 655884.42	Easting (US ft) 1043670.54	Elevation (US ft) 349.74	
Point Type NVA	Latitude N36°05'40.33204"	Longitude W89°07'50.92537"	Ellipsoid Height (US ft) 257.00	
Location Photo  NORTH				
 <p>2009_2020_TN, 3W, 20200108</p>		 <p>2009_2020_TN, 3N, 20200108</p>		







GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 2010_2019_TN	Northing (US ft) 457144.46	Easting (US ft) 1132341.49	Elevation (US ft) 427.81	
Point Type NVA	Latitude N35°33'22.34758"	Longitude W88°48'41.36002"	Ellipsoid Height (US ft) 335.16	
Location Photo  NORTH				
 <p>2010_2019_TN, 3N, 20191210</p>		 <p>2010_2019_TN, 3E, 20191210</p>		







GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 2011_2019_TN	Northing (US ft) 404173.93	Easting (US ft) 1250787.81	Elevation (US ft) 572.46	
Point Type NVA	Latitude N35°25'09.88168"	Longitude W88°24'32.46371"	Ellipsoid Height (US ft) 481.09	
Location Photo  NORTH				
 <p>2011_2019_TN, 3W, 20191218</p>		 <p>2011_2019_TN, 3N, 20191218</p>		



GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 2012_2019_TN	Northing (US ft) 459757.48	Easting (US ft) 1059598.63	Elevation (US ft) 412.54	
Point Type NVA	Latitude N35°33'26.61533"	Longitude W89°03'22.32092"	Ellipsoid Height (US ft) 320.45	
Location Photo  NORTH				
 <p>2012_2019_TN, 3W, 20191211</p>		 <p>2012_2019_TN, 3S, 20191211</p>		







GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 2013_2020_TN	Northing (US ft) 735857.60	Easting (US ft) 924824.54	Elevation (US ft) 293.77	
Point Type NVA	Latitude N36°18'10.67115"	Longitude W89°32'33.37989"	Ellipsoid Height (US ft) 200.55	
Location Photo  NORTH				
 <p>2013_2020_TN, 3N, 20200110</p>		 <p>2013_2020_TN, 3E, 20200110</p>		





GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 2014_2019_TN	Northing (US ft) 545344.22	Easting (US ft) 924402.17	Elevation (US ft) 404.09	
Point Type NVA	Latitude N35°46'47.68009"	Longitude W89°31'14.82308"	Ellipsoid Height (US ft) 312.99	
Location Photo  NORTH				
 <p>2014_2019_TN, 3SW, 20190301</p>		 <p>2014_2019_TN, 3NW, 20190301</p>		



GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 2015A_2019_TN	Northing (US ft) 345925.49	Easting (US ft) 1143398.00	Elevation (US ft) 474.67	
Point Type NVA	Latitude N35°15'05.92119"	Longitude W88°45'49.58936"	Ellipsoid Height (US ft) 382.83	
Location Photo  NORTH				







2015A_2019_TN, 3N, 20191217



2015A_2019_TN, 3E, 20191217







GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 2015B_2019_TN	Northing (US ft) 345919.43	Easting (US ft) 1143438.38	Elevation (US ft) 474.57	
Point Type NVA	Latitude N35°15'05.87256"	Longitude W88°45'49.10067"	Ellipsoid Height (US ft) 382.74	
Location Photo  NORTH				
 <p>2015B_2019_TN, 3N, 20191217</p>		 <p>2015B_2019_TN, 3E, 20191217</p>		







GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 2016_2019_TN	Northing (US ft) 417601.36	Easting (US ft) 1256763.98	Elevation (US ft) 516.38	
Point Type NVA	Latitude N35°27'24.09180"	Longitude W88°23'24.24110"	Ellipsoid Height (US ft) 424.83	
Location Photo  NORTH				
 <p>2016_2019_TN, 3N, 20191218</p>		 <p>2016_2019_TN, 3E, 20191218</p>		







GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 2017_2019_TN	Northing (US ft) 465763.04	Easting (US ft) 987240.02	Elevation (US ft) 388.81	
Point Type NVA	Latitude N35°34'02.74508"	Longitude W89°18'00.03866"	Ellipsoid Height (US ft) 297.57	
Location Photo  NORTH				
 <p>2017_2019_TN, 3W, 20191214</p>		 <p>2017_2019_TN, 3N, 20191214</p>		







GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 2018_2019_TN	Northing (US ft) 456690.95	Easting (US ft) 1084209.64	Elevation (US ft) 506.38	
Point Type NVA	Latitude N35°33'03.79783"	Longitude W88°58'23.46128"	Ellipsoid Height (US ft) 414.07	
Location Photo  NORTH				
 <p>2018_2019_TN, 3NW, 20191211</p>	 <p>2018_2019_TN, 3NE, 20191211</p>			





GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 2019_2020_TN	Northing (US ft) 652058.09	Easting (US ft) 1149779.62	Elevation (US ft) 364.19	
Point Type NVA	Latitude N36°05'34.14681"	Longitude W88°46'17.18664"	Ellipsoid Height (US ft) 271.40	
Location Photo  NORTH				
 <p>2019_2020_TN, 3SE, 20200113</p>		 <p>2019_2020_TN, 3NE, 20200113</p>		



GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 2020_2019_TN	Northing (US ft) 461391.20	Easting (US ft) 1035588.38	Elevation (US ft) 447.37	
Point Type NVA	Latitude N35°33'35.25265"	Longitude W89°08'13.40413"	Ellipsoid Height (US ft) 355.53	
Location Photo  NORTH				







2020_2019_TN, 3W, 20191219



2020_2019_TN, 3N, 20191219





GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 2021_2020_TN	Northing (US ft) 666964.19	Easting (US ft) 1006071.33	Elevation (US ft) 365.48	
Point Type NVA	Latitude N36°07'17.70805"	Longitude W89°15'33.31132"	Ellipsoid Height (US ft) 272.59	
Location Photo  NORTH				
 <p>2021_2020_TN, 3N, 20200108</p>		 <p>2021_2020_TN, 3E, 20200108</p>		



GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 2022_2020_TN	Northing (US ft) 667784.97	Easting (US ft) 1086642.12	Elevation (US ft) 322.70	
Point Type NVA	Latitude N36°07'51.24194"	Longitude W88°59'11.98683"	Ellipsoid Height (US ft) 229.96	
Location Photo  NORTH				







2022_2020_TN, 3S, 20200112



2022_2020_TN, 3E, 20200112







GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 2023_2019_TN	Northing (US ft) 500880.08	Easting (US ft) 1033658.39	Elevation (US ft) 331.93	
Point Type NVA	Latitude N35°40'04.98959"	Longitude W89°08'52.12168"	Ellipsoid Height (US ft) 239.90	
Location Photo  NORTH				
 <p>2023_2019_TN, 3W, 20191213</p>		 <p>2023_2019_TN, 3N, 20191213</p>		





GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 2024_2019_TN	Northing (US ft) 615795.01	Easting (US ft) 1164557.36	Elevation (US ft) 517.09	
Point Type NVA	Latitude N35°59'39.76404"	Longitude W88°43'04.92402"	Ellipsoid Height (US ft) 424.20	
Location Photo  NORTH				
 <p>2024_2019_TN, 3N, 20191216</p>		 <p>2024_2019_TN, 3E, 20191216</p>		







GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 2025_2019_TN	Northing (US ft) 486893.89	Easting (US ft) 1028778.31	Elevation (US ft) 373.00	
Point Type NVA	Latitude N35°37'45.18065"	Longitude W89°09'45.75987"	Ellipsoid Height (US ft) 281.11	
Location Photo  NORTH				
 2025_2019_TN, 3W, 20191214		 2025_2019_TN, 3N, 20191214		







GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 2026_2019_TN	Northing (US ft) 597831.52	Easting (US ft) 1126930.20	Elevation (US ft) 367.36	
Point Type NVA	Latitude N35°56'31.61213"	Longitude W88°50'36.28824"	Ellipsoid Height (US ft) 274.60	
Location Photo  NORTH				
 <p>2026_2019_TN, 3N, 20191215</p>		 <p>2026_2019_TN, 3E, 20191215</p>		







GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 2027_2019_TN	Northing (US ft) 619644.94	Easting (US ft) 1045862.14	Elevation (US ft) 366.89	
Point Type NVA	Latitude N35°59'42.81834"	Longitude W89°07'10.16177"	Ellipsoid Height (US ft) 274.29	
Location Photo  NORTH				
 <p>2027_2019_TN, 3W, 20191216</p>		 <p>2027_2019_TN, 3N, 20191216</p>		




GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 2028_2019_TN	Northing (US ft) 458298.63	Easting (US ft) 1208233.44	Elevation (US ft) 491.73	
Point Type NVA	Latitude N35°33'54.34037"	Longitude W88°33'23.52228"	Ellipsoid Height (US ft) 399.50	
Location Photo  NORTH				
 <p>2028_2019_TN, 3S, 20191217</p>		 <p>2028_2019_TN, 3E, 20191217</p>		



GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 2029_2019_TN	Northing (US ft) 428623.71	Easting (US ft) 955921.17	Elevation (US ft) 312.60	
Point Type NVA	Latitude N35°27'45.04151"	Longitude W89°24'03.29391"	Ellipsoid Height (US ft) 221.93	
Location Photo ↑ NORTH				







2029_2019_TN, 3N, 20191219



2029_2019_TN, 3E, 20191219





GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 2030A_2020_TN	Northing (US ft) 692038.75	Easting (US ft) 1201031.25	Elevation (US ft) 434.84	
Point Type NVA	Latitude N36°12'23.28556"	Longitude W88°36'05.87017"	Ellipsoid Height (US ft) 341.96	
Location Photo  NORTH				
 <p>2030A_2020_TN, 3W, 20200113</p>		 <p>2030A_2020_TN, 3N, 20200113</p>		



GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 2030B_2020_TN	Northing (US ft) 691999.63	Easting (US ft) 1201072.52	Elevation (US ft) 435.55	
Point Type NVA	Latitude N36°12'22.90969"	Longitude W88°36'05.35415"	Ellipsoid Height (US ft) 342.67	
Location Photo  NORTH				



2030B_2020_TN, 3S, 20200113



2030B_2020_TN, 3E, 20200113






GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 2031_2019_TN	Northing (US ft) 386987.65	Easting (US ft) 1262807.80	Elevation (US ft) 420.36	
Point Type NVA	Latitude N35°22'22.85552"	Longitude W88°22'02.25527"	Ellipsoid Height (US ft) 329.19	
Location Photo  NORTH				
 <p>2031_2019_TN, 3W, 20191218</p>		 <p>2031_2019_TN, 3N, 20191218</p>		



GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 2032_2019_TN	Northing (US ft) 432076.06	Easting (US ft) 1064190.71	Elevation (US ft) 362.79	
Point Type NVA	Latitude N35°28'54.38617"	Longitude W89°02'16.37139"	Ellipsoid Height (US ft) 270.74	
Location Photo  NORTH				
 <p>2032_2019_TN, 3W, 20191211</p>		 <p>2032_2019_TN, 3N, 20191211</p>		





GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 2033_2020_TN	Northing (US ft) 628615.26	Easting (US ft) 882622.15	Elevation (US ft) 279.41	
Point Type NVA	Latitude N36°00'15.47400"	Longitude W89°40'19.45691"	Ellipsoid Height (US ft) 186.81	
Location Photo  NORTH				
 <p>2033_2020_TN, 3N, 20200109</p>		 <p>2033_2020_TN, 3E, 20200109</p>		



GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 2034_2020_TN	Northing (US ft) 636238.31	Easting (US ft) 965572.30	Elevation (US ft) 290.55	
Point Type NVA	Latitude N36°02'00.41545"	Longitude W89°23'33.68120"	Ellipsoid Height (US ft) 197.85	
Location Photo  NORTH				







2034_2020_TN, 3W, 20200107



2034_2020_TN, 3S, 20200107







GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 2035_2020_TN	Northing (US ft) 783674.91	Easting (US ft) 1073118.36	Elevation (US ft) 374.06	
Point Type NVA	Latitude N36°26'52.58843"	Longitude W89°02'40.71241"	Ellipsoid Height (US ft) 281.70	
Location Photo  NORTH				
 <p>2035_2020_TN, 3W, 20200112</p>		 <p>2035_2020_TN, 3S, 20200112</p>		







GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 2036_2019_TN	Northing (US ft) 593290.73	Easting (US ft) 1107457.61	Elevation (US ft) 375.17	
Point Type NVA	Latitude N35°55'41.06605"	Longitude W88°54'31.36072"	Ellipsoid Height (US ft) 282.48	
Location Photo  NORTH				
 <p>2036_2019_TN, 3W, 20191215</p>		 <p>2036_2019_TN, 3N, 20191215</p>		



GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH	
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)	
Station ID 2037_2019_TN	Northing (US ft) 799040.79	Easting (US ft) 1116834.62	Elevation (US ft) 373.95		
Point Type NVA	Latitude N36°29'37.58061"	Longitude W88°53'51.45282"	Ellipsoid Height (US ft) 281.66		
Location Photo  NORTH					
 <p>2037_2019_TN, 3SW, 20190304</p>		 <p>2037_2019_TN, 3NW, 20190304</p>			



GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)

Station ID 2038A_2019_TN	Northing (US ft) 609857.56	Easting (US ft) 1101944.22	Elevation (US ft) 325.69
Point Type NVA	Latitude N35°58'23.20745"	Longitude W88°55'44.39851"	Ellipsoid Height (US ft) 232.97

Location Photo







NORTH








GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 2038B_2019_TN	Northing (US ft) 609923.29	Easting (US ft) 1101941.61	Elevation (US ft) 324.61	
Point Type NVA	Latitude N35°58'23.85640"	Longitude W88°55'44.45418"	Ellipsoid Height (US ft) 231.88	
Location Photo  NORTH				
 <p>2038B_2019_TN, 3N, 20191215</p>		 <p>2038B_2019_TN, 3E, 20191215</p>		



GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 2039_2019_TN	Northing (US ft) 626666.90	Easting (US ft) 1138652.87	Elevation (US ft) 408.24	
Point Type NVA	Latitude N36°01'20.00925"	Longitude W88°48'23.83560"	Ellipsoid Height (US ft) 315.45	
Location Photo ↑ NORTH				







2039_2019_TN, 3W, 20191216



2039_2019_TN, 3N, 20191216



GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 2040_2020_TN	Northing (US ft) 776846.76	Easting (US ft) 938210.51	Elevation (US ft) 286.40	
Point Type NVA	Latitude N36°25'00.49615"	Longitude W89°30'07.86396"	Ellipsoid Height (US ft) 193.16	
Location Photo  NORTH				
 <p>2040_2020_TN, 3W, 20200114</p>		 <p>2040_2020_TN, 3S, 20200114</p>		



GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 2041_2019_TN	Northing (US ft) 402643.48	Easting (US ft) 1181919.56	Elevation (US ft) 436.45	
Point Type NVA	Latitude N35°24'37.18260"	Longitude W88°38'23.74738"	Ellipsoid Height (US ft) 344.28	
Location Photo  NORTH				





2041_2019_TN, 3W, 20191218



2041_2019_TN, 3S, 20191218



GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 2042A_2019_TN	Northing (US ft) 443001.56	Easting (US ft) 746603.25	Elevation (US ft) 253.54	
Point Type NVA	Latitude N35°28'47.76861"	Longitude W90°06'18.77426"	Ellipsoid Height (US ft) 162.99	
Location Photo  NORTH				







2042A_2019_TN, 3S, 20190226



2042A_2019_TN, 3E, 20190226



GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 2042B_2019_TN	Northing (US ft) 443003.23	Easting (US ft) 746653.19	Elevation (US ft) 253.48	
Point Type NVA	Latitude N35°28'47.80574"	Longitude W90°06'18.17170"	Ellipsoid Height (US ft) 162.94	
Location Photo  NORTH				
 <p>2042B_2019_TN, 3W, 20190226</p>		 <p>2042B_2019_TN, 3N, 20190226</p>		



GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 2043_2020_TN	Northing (US ft) 672823.59	Easting (US ft) 1182437.92	Elevation (US ft) 354.16	
Point Type NVA	Latitude N36°09'08.38864"	Longitude W88°39'46.28613"	Ellipsoid Height (US ft) 261.29	
Location Photo ↑ NORTH				




2043_2020_TN, 3N, 20200113



2043_2020_TN, 3E, 20200113



GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 2044_2019_TN	Northing (US ft) 501807.85	Easting (US ft) 846532.54	Elevation (US ft) 304.77	
Point Type NVA	Latitude N35°39'08.69418"	Longitude W89°46'38.82491"	Ellipsoid Height (US ft) 214.73	
Location Photo  NORTH				





2044_2019_TN, 3NW, 20190227



2044_2019_TN, 3NE, 20190227



GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 2045_2019_TN	Northing (US ft) 549701.75	Easting (US ft) 1111386.87	Elevation (US ft) 353.90	
Point Type NVA	Latitude N35°48'31.32023"	Longitude W88°53'27.94896"	Ellipsoid Height (US ft) 261.21	
Location Photo  NORTH				



2045_2019_TN, 3W, 20191212



2045_2019_TN, 3N, 20191212





GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 2046_2020_TN	Northing (US ft) 724839.62	Easting (US ft) 1102340.88	Elevation (US ft) 357.03	
Point Type NVA	Latitude N36°17'19.89761"	Longitude W88°56'21.58292"	Ellipsoid Height (US ft) 264.33	
Location Photo  NORTH				
 <p>2046_2020_TN, 3N, 20200112</p>		 <p>2046_2020_TN, 3E, 20200112</p>		



GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 2047_2019_TN	Northing (US ft) 585369.75	Easting (US ft) 1153323.46	Elevation (US ft) 409.42	
Point Type NVA	Latitude N35°54'35.88150"	Longitude W88°45'11.16772"	Ellipsoid Height (US ft) 316.60	
Location Photo  NORTH				







2047_2019_TN, 3N, 20191215



2047_2019_TN, 3E, 20191215







GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 2048_2020_TN	Northing (US ft) 746877.55	Easting (US ft) 1040011.26	Elevation (US ft) 362.40	
Point Type NVA	Latitude N36°20'38.53740"	Longitude W89°09'11.20581"	Ellipsoid Height (US ft) 269.64	
Location Photo  NORTH				
 <p>2048_2020_TN, 3N, 20200112</p>		 <p>2048_2020_TN, 3E, 20200112</p>		







GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 2049_2019_TN	Northing (US ft) 487085.16	Easting (US ft) 1122241.94	Elevation (US ft) 403.14	
Point Type NVA	Latitude N35°38'15.45441"	Longitude W88°50'54.08743"	Ellipsoid Height (US ft) 310.45	
Location Photo  NORTH				
 <p>2049_2019_TN, 3W, 20191212</p>		 <p>2049_2019_TN, 3S, 20191212</p>		







GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 2050_2019_TN	Northing (US ft) 535401.22	Easting (US ft) 889876.95	Elevation (US ft) 310.31	
Point Type NVA	Latitude N35°44'56.92820"	Longitude W89°38'09.08033"	Ellipsoid Height (US ft) 219.61	
Location Photo  NORTH				
				
<p align="center">2050_2019_TN, 3N, 20190301</p>		<p align="center">2050_2019_TN, 3E, 20190301</p>		







GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 2051_2020_TN	Northing (US ft) 708289.34	Easting (US ft) 923751.86	Elevation (US ft) 280.36	
Point Type NVA	Latitude N36°13'37.84690"	Longitude W89°32'34.28661"	Ellipsoid Height (US ft) 187.25	
Location Photo  NORTH				
 <p>2051_2020_TN, 3N, 20200109</p>		 <p>2051_2020_TN, 3E, 20200109</p>		







GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 2052_2019_TN	Northing (US ft) 428197.75	Easting (US ft) 832347.46	Elevation (US ft) 441.93	
Point Type NVA	Latitude N35°26'55.78215"	Longitude W89°48'55.81633"	Ellipsoid Height (US ft) 352.46	
Location Photo  NORTH				
 <p>2052_2019_TN, 3W, 20190225</p>		 <p>2052_2019_TN, 3N, 20190225</p>		





GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 2053_2020_TN	Northing (US ft) 743697.46	Easting (US ft) 1077542.01	Elevation (US ft) 357.97	
Point Type NVA	Latitude N36°20'18.81926"	Longitude W89°01'31.47190"	Ellipsoid Height (US ft) 265.31	
Location Photo  NORTH				
 <p>2053_2020_TN, 3W, 20200112</p>		 <p>2053_2020_TN, 3N, 20200112</p>		



GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 2054_2019_TN	Northing (US ft) 747264.96	Easting (US ft) 1196853.24	Elevation (US ft) 397.79	
Point Type NVA	Latitude N36°21'28.11085"	Longitude W88°37'14.87620"	Ellipsoid Height (US ft) 304.93	
Location Photo  NORTH				







2054_2019_TN, 3NW, 20190304



2054_2019_TN, 3NE, 20190304







GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 2055_2020_TN	Northing (US ft) 586293.51	Easting (US ft) 1006519.38	Elevation (US ft) 322.51	
Point Type NVA	Latitude N35°54'00.50221"	Longitude W89°14'55.21876"	Ellipsoid Height (US ft) 230.21	
Location Photo  NORTH				
 <p>2055_2020_TN, 3N, 20200108</p>	 <p>2055_2020_TN, 3E, 20200108</p>			


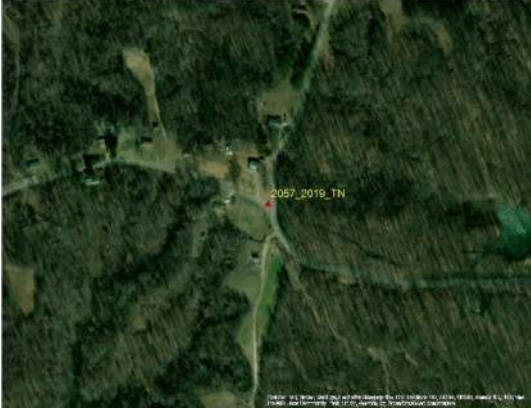




GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 2056_2019_TN	Northing (US ft) 390683.93	Easting (US ft) 1161503.33	Elevation (US ft) 482.67	
Point Type NVA	Latitude N35°22'33.42765"	Longitude W88°42'26.30311"	Ellipsoid Height (US ft) 390.44	
Location Photo  NORTH				
 <p>2056_2019_TN, 3N, 20191218</p>		 <p>2056_2019_TN, 3E, 20191218</p>		



GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 2057_2019_TN	Northing (US ft) 489695.22	Easting (US ft) 821789.24	Elevation (US ft) 396.09	
Point Type NVA	Latitude N35°36'59.44485"	Longitude W89°51'32.63295"	Ellipsoid Height (US ft) 305.99	
Location Photo  NORTH				
 <p>2057_2019_TN, 3N, 20190228</p>		 <p>2057_2019_TN, 3E, 20190228</p>		



GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)

Station ID 2058A_2019_TN	Northing (US ft) 743082.43	Easting (US ft) 1129031.27	Elevation (US ft) 405.72
Point Type NVA	Latitude N36°20'28.02286"	Longitude W88°51'02.19195"	Ellipsoid Height (US ft) 313.09

<p>Location Photo</p>  <p>NORTH</p>		
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2058A_2019_TN, 3S, 20190303



2058A_2019_TN, 3E, 20190303







GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 2058B_2019_TN	Northing (US ft) 743033.19	Easting (US ft) 1129022.65	Elevation (US ft) 406.61	
Point Type NVA	Latitude N36°20'27.53374"	Longitude W88°51'02.27977"	Ellipsoid Height (US ft) 313.98	
Location Photo  NORTH				
 <p>2058B_2019_TN, 3W, 20190303</p>		 <p>2058B_2019_TN, 3N, 20190303</p>		







GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 2059_2020_TN	Northing (US ft) 681504.28	Easting (US ft) 1030779.17	Elevation (US ft) 297.42	
Point Type NVA	Latitude N36°09'49.45368"	Longitude W89°10'38.05625"	Ellipsoid Height (US ft) 204.52	
Location Photo  NORTH				
 <p>2059_2020_TN, 3N, 20200108</p>		 <p>2059_2020_TN, 3E, 20200108</p>		





GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 2060_2019_TN	Northing (US ft) 428851.66	Easting (US ft) 1194124.49	Elevation (US ft) 429.17	
Point Type NVA	Latitude N35°28'59.52768"	Longitude W88°36'04.76776"	Ellipsoid Height (US ft) 337.01	
Location Photo  NORTH				
 <p>2060_2019_TN, 3N, 20191217</p>		 <p>2060_2019_TN, 3E, 20191217</p>		



GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 2061_2020_TN	Northing (US ft) 660499.09	Easting (US ft) 958151.78	Elevation (US ft) 413.07	
Point Type NVA	Latitude N36°05'57.64069"	Longitude W89°25'14.29739"	Ellipsoid Height (US ft) 320.21	
Location Photo  NORTH				




2061_2020_TN, 3W, 20200107



2061_2020_TN, 3S, 20200107





GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 2062_2019_TN	Northing (US ft) 490560.27	Easting (US ft) 953213.71	Elevation (US ft) 295.60	
Point Type NVA	Latitude N35°37'56.30276"	Longitude W89°25'02.14216"	Ellipsoid Height (US ft) 204.78	
Location Photo  NORTH				
 <p>2062_2019_TN, 3N, 20191219</p>		 <p>2062_2019_TN, 3E, 20191219</p>		



GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 2063_2020_TN	Northing (US ft) 426292.49	Easting (US ft) 880549.87	Elevation (US ft) 333.33	
Point Type NVA	Latitude N35°26'55.13952"	Longitude W89°39'12.75438"	Ellipsoid Height (US ft) 243.72	
Location Photo  NORTH				



2063_2020_TN_3N_20200201



2063_2020_TN_3E_20200201



GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 2064_2019_TN	Northing (US ft) 786623.52	Easting (US ft) 1211695.39	Elevation (US ft) 417.29	
Point Type NVA	Latitude N36°28'01.06164"	Longitude W88°34'26.14007"	Ellipsoid Height (US ft) 324.27	
Location Photo  NORTH				



2064_2019_TN, 3NW, 20190304



2064_2019_TN, 3NE, 20190304



GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)

Station ID 2064A_2019_TN	Northing (US ft) 786575.54	Easting (US ft) 1211645.56	Elevation (US ft) 417.58
Point Type NVA	Latitude N36°28'00.57438"	Longitude W88°34'26.73448"	Ellipsoid Height (US ft) 324.56

Location Photo







NORTH











GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 2065_2020_TN	Northing (US ft) 615192.17	Easting (US ft) 964880.53	Elevation (US ft) 337.99	
Point Type NVA	Latitude N35°58'32.16681"	Longitude W89°23'33.21774"	Ellipsoid Height (US ft) 245.50	
Location Photo  NORTH				
 <p>2065_2020_TN, 3N, 20200108</p>		 <p>2065_2020_TN, 3E, 20200108</p>		



GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 2066_2019_TN	Northing (US ft) 581684.70	Easting (US ft) 915295.90	Elevation (US ft) 262.60	
Point Type NVA	Latitude N35°52'43.59247"	Longitude W89°33'21.29375"	Ellipsoid Height (US ft) 170.81	
Location Photo  NORTH				
 <p>2066_2019_TN, 3W, 20190228</p>		 <p>2066_2019_TN, 3N, 20190228</p>		



GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 2067_2020_TN	Northing (US ft) 753504.60	Easting (US ft) 970625.99	Elevation (US ft) 291.33	
Point Type NVA	Latitude N36°21'21.10375"	Longitude W89°23'21.62329"	Ellipsoid Height (US ft) 198.35	
Location Photo ↑ NORTH				







2067_2020_TN, 3N, 20200110



2067_2020_TN, 3E, 20200110


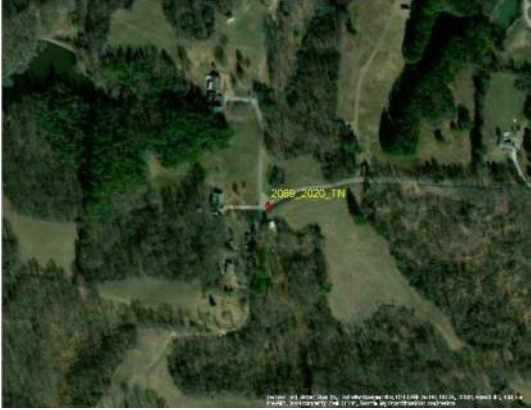




GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 2068_2020_TN	Northing (US ft) 579758.02	Easting (US ft) 962834.03	Elevation (US ft) 303.98	
Point Type NVA	Latitude N35°52'41.24282"	Longitude W89°23'43.14829"	Ellipsoid Height (US ft) 211.97	
Location Photo  NORTH				
 <p>2068_2020_TN, 3W, 20200108</p>		 <p>2068_2020_TN, 3N, 20200108</p>		





GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 2069_2020_TN	Northing (US ft) 727045.22	Easting (US ft) 1193126.88	Elevation (US ft) 500.04	
Point Type NVA	Latitude N36°18'07.24775"	Longitude W88°37'53.77010"	Ellipsoid Height (US ft) 407.23	
Location Photo  NORTH				
 <p>2069_2020_TN, 3S, 20200113</p>		 <p>2069_2020_TN, 3E, 20200113</p>		



GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 2070_2019_TN	Northing (US ft) 421679.90	Easting (US ft) 1114319.04	Elevation (US ft) 477.09	
Point Type NVA	Latitude N35°27'26.57046"	Longitude W88°52'06.81186"	Ellipsoid Height (US ft) 384.71	
Location Photo  NORTH				







2070_2019_TN, 3W, 20191210



2070_2019_TN, 3S, 20191210







GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 2071_2019_TN	Northing (US ft) 486133.45	Easting (US ft) 890674.07	Elevation (US ft) 271.33	
Point Type NVA	Latitude N35°36'50.29403"	Longitude W89°37'37.26921"	Ellipsoid Height (US ft) 181.61	
Location Photo  NORTH				
 <p>2071_2019_TN, 3SE, 20190302</p>		 <p>2071_2019_TN, 3NE, 20190302</p>		







GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 2072_2019_TN	Northing (US ft) 791794.47	Easting (US ft) 1169377.87	Elevation (US ft) 420.02	
Point Type NVA	Latitude N36°28'40.86209"	Longitude W88°43'05.76473"	Ellipsoid Height (US ft) 327.35	
Location Photo  NORTH				
 <p>2072_2019_TN, 3W, 20190304</p>		 <p>2072_2019_TN, 3S, 20190304</p>		





GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 2073_2019_TN	Northing (US ft) 503712.37	Easting (US ft) 931365.86	Elevation (US ft) 320.78	
Point Type NVA	Latitude N35°39'58.67142"	Longitude W89°29'32.33287"	Ellipsoid Height (US ft) 230.24	
Location Photo  NORTH				
 <p>2073_2019_TN, 3W, 20190301</p>		 <p>2073_2019_TN, 3N, 20190301</p>		



GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 2074A_2019_TN	Northing (US ft) 506743.21	Easting (US ft) 905305.86	Elevation (US ft) 311.08	
Point Type NVA	Latitude N35°40'19.31620"	Longitude W89°34'49.30220"	Ellipsoid Height (US ft) 220.86	
Location Photo  NORTH				



2074A_2019_TN, 3SW, 20190228



2074A_2019_TN, 3NW, 20190228



GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)

Station ID 2074B_2019_TN	Northing (US ft) 506716.05	Easting (US ft) 905263.92	Elevation (US ft) 311.04
Point Type NVA	Latitude N35°40'19.03258"	Longitude W89°34'49.79821"	Ellipsoid Height (US ft) 220.83

Location Photo



NORTH






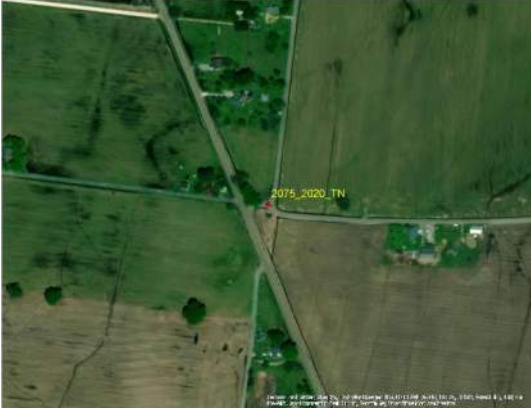


2074B_2019_TN, 3SW, 20190228



2074B_2019_TN, 3SE, 20190228



GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 2075_2020_TN	Northing (US ft) 692212.49	Easting (US ft) 950665.22	Elevation (US ft) 276.90	
Point Type NVA	Latitude N36°11'08.46972"	Longitude W89°26'59.08871"	Ellipsoid Height (US ft) 183.84	
Location Photo  NORTH				
 <p>2075_2020_TN, 3SW, 20200108</p>		 <p>2075_2020_TN, 3SE, 20200108</p>		



GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)

Station ID 2076_2019_TN	Northing (US ft) 517251.03	Easting (US ft) 885853.77	Elevation (US ft) 363.79
Point Type NVA	Latitude N35°41'56.06643"	Longitude W89°38'49.65233"	Ellipsoid Height (US ft) 273.50

<p>Location Photo</p>  <p>NORTH</p>		
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2076_2019_TN, 3NW, 20190227



2076_2019_TN, 3NE, 20190227







GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 2077_2020_TN	Northing (US ft) 597401.21	Easting (US ft) 955605.17	Elevation (US ft) 324.60	
Point Type NVA	Latitude N35°55'33.13418"	Longitude W89°25'18.43307"	Ellipsoid Height (US ft) 232.35	
Location Photo  NORTH				
 <p>2077_2020_TN, 3N, 20200108</p>		 <p>2077_2020_TN, 3E, 20200108</p>		







GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 2078_2019_TN	Northing (US ft) 433128.55	Easting (US ft) 804423.07	Elevation (US ft) 432.27	
Point Type NVA	Latitude N35°27'33.61361"	Longitude W89°54'35.44114"	Ellipsoid Height (US ft) 342.52	
Location Photo  NORTH				
 <p>2078_2019_TN, 3N, 20190226</p>		 <p>2078_2019_TN, 3E, 20190226</p>		




GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 2079_2020_TN	Northing (US ft) 657312.83	Easting (US ft) 936117.91	Elevation (US ft) 300.34	
Point Type NVA	Latitude N36°05'18.45343"	Longitude W89°29'41.23802"	Ellipsoid Height (US ft) 207.49	
Location Photo  NORTH				
 <p>2079_2020_TN, 3W, 20200109</p>		 <p>2079_2020_TN, 3S, 20200109</p>		



GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 2080_2020_TN	Northing (US ft) 780897.23	Easting (US ft) 998633.12	Elevation (US ft) 310.42	
Point Type NVA	Latitude N36°26'01.27603"	Longitude W89°17'50.70625"	Ellipsoid Height (US ft) 217.67	
Location Photo ↑ NORTH				







2080_2020_TN, 3W, 20200114



2080_2020_TN, 3N, 20200114





GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 2081_2019_TN	Northing (US ft) 562285.82	Easting (US ft) 1025341.56	Elevation (US ft) 341.63	
Point Type NVA	Latitude N35°50'09.31405"	Longitude W89°10'57.06438"	Ellipsoid Height (US ft) 249.38	
Location Photo  NORTH				
 <p>2081_2019_TN, 3N, 20191216</p>		 <p>2081_2019_TN, 3E, 20191216</p>		



GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 2082_2019_TN	Northing (US ft) 579897.47	Easting (US ft) 1100209.66	Elevation (US ft) 375.88	
Point Type NVA	Latitude N35°53'26.53076"	Longitude W88°55'54.57455"	Ellipsoid Height (US ft) 283.25	
Location Photo  NORTH				







2082_2019_TN, 3W, 20191215



2082_2019_TN, 3N, 20191215







GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 2083_2019_TN	Northing (US ft) 526739.18	Easting (US ft) 1066669.40	Elevation (US ft) 367.96	
Point Type NVA	Latitude N35°44'30.92802"	Longitude W89°02'21.95694"	Ellipsoid Height (US ft) 275.53	
Location Photo  NORTH				
 <p>2083_2019_TN, 3N, 20191213</p>		 <p>2083_2019_TN, 3E, 20191213</p>		







GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 2084_2020_TN	Northing (US ft) 668228.40	Easting (US ft) 1158605.03	Elevation (US ft) 460.00	
Point Type NVA	Latitude N36°08'16.45455"	Longitude W88°44'35.21572"	Ellipsoid Height (US ft) 367.24	
Location Photo  NORTH				
 <p>2084_2020_TN, 3W, 20200113</p>		 <p>2084_2020_TN, 3N, 20200113</p>		



GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 2085_2019_TN	Northing (US ft) 763775.88	Easting (US ft) 1207285.69	Elevation (US ft) 444.94	
Point Type NVA	Latitude N36°24'14.06580"	Longitude W88°35'12.71395"	Ellipsoid Height (US ft) 351.97	
Location Photo  NORTH				
 <p>2085_2019_TN, 3SW, 20190304</p>		 <p>2085_2019_TN, 3NW, 20190304</p>		



GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 2086_2020_TN	Northing (US ft) 767697.09	Easting (US ft) 1059755.28	Elevation (US ft) 326.43	
Point Type NVA	Latitude N36°24'10.53203"	Longitude W89°05'18.01708"	Ellipsoid Height (US ft) 233.90	
Location Photo ↑ NORTH				







2086_2020_TN, 3S, 20200112



2086_2020_TN, 3E, 20200112







GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 2087_2020_TN	Northing (US ft) 767213.45	Easting (US ft) 1013993.84	Elevation (US ft) 397.96	
Point Type NVA	Latitude N36°23'51.11602"	Longitude W89°14'37.28829"	Ellipsoid Height (US ft) 305.24	
Location Photo  NORTH				
 <p>2087_2020_TN, 3N, 20200114</p>		 <p>2087_2020_TN, 3E, 20200114</p>		



GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 2088_2019_TN	Northing (US ft) 412839.28	Easting (US ft) 836911.04	Elevation (US ft) 401.14	
Point Type NVA	Latitude N35°24'25.75263"	Longitude W89°47'53.49679"	Ellipsoid Height (US ft) 311.62	
Location Photo  NORTH				
 <p>2088_2019_TN, 3N, 20190225</p>		 <p>2088_2019_TN, 3E, 20190225</p>		



GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)

Station ID 2089_2019_TN	Northing (US ft) 613213.69	Easting (US ft) 1089478.67	Elevation (US ft) 342.27
Point Type NVA	Latitude N35°58'52.66743"	Longitude W88°58'17.22856"	Ellipsoid Height (US ft) 249.56

Location Photo




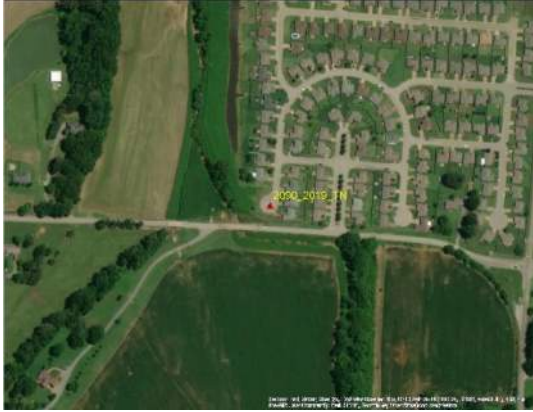


NORTH







GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 2090_2019_TN	Northing (US ft) 525073.31	Easting (US ft) 1115314.37	Elevation (US ft) 364.82	
Point Type NVA	Latitude N35°44'28.99599"	Longitude W88°52'31.50056"	Ellipsoid Height (US ft) 272.13	
Location Photo  NORTH				
 <p>2090_2019_TN, 3W, 20191212</p>		 <p>2090_2019_TN, 3N, 20191212</p>		



GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 2091_2020_TN	Northing (US ft) 744529.75	Easting (US ft) 945946.75	Elevation (US ft) 286.80	
Point Type NVA	Latitude N36°19'43.85630"	Longitude W89°28'19.24980"	Ellipsoid Height (US ft) 193.70	
Location Photo ↑ NORTH				




2091_2020_TN, 3N, 20200110



2091_2020_TN, 3E, 20200110



GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 2092_2019_TN	Northing (US ft) 419789.62	Easting (US ft) 1006995.96	Elevation (US ft) 359.15	
Point Type NVA	Latitude N35°26'34.82558"	Longitude W89°13'42.67589"	Ellipsoid Height (US ft) 267.81	
Location Photo ↑ NORTH				







2092_2019_TN, 3N, 20191219



2092_2019_TN, 3E, 20191219




GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 2093_2019_TN	Northing (US ft) 444125.18	Easting (US ft) 860591.77	Elevation (US ft) 298.12	
Point Type NVA	Latitude N35°29'43.94740"	Longitude W89°43'22.00373"	Ellipsoid Height (US ft) 208.73	
Location Photo  NORTH				
 <p>2093_2019_TN, 3NW, 20190302</p>		 <p>2093_2019_TN, 3NE, 20190302</p>		



GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 2094_2019_TN	Northing (US ft) 570282.16	Easting (US ft) 921580.22	Elevation (US ft) 506.78	
Point Type NVA	Latitude N35°50'53.14791"	Longitude W89°31'59.97529"	Ellipsoid Height (US ft) 415.22	
Location Photo ↑ NORTH				




2094_2019_TN, 3SW, 20190228



2094_2019_TN, 3NW, 20190228





GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 2095_2020_TN	Northing (US ft) 712541.64	Easting (US ft) 1114136.29	Elevation (US ft) 340.86	
Point Type NVA	Latitude N36°15'21.81700"	Longitude W88°53'53.11941"	Ellipsoid Height (US ft) 248.17	
Location Photo  NORTH				
 <p>2095_2020_TN, 3S, 20200113</p>		 <p>2095_2020_TN, 3E, 20200113</p>		





GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 2096_2020_TN	Northing (US ft) 684514.45	Easting (US ft) 914261.51	Elevation (US ft) 275.42	
Point Type NVA	Latitude N36°09'39.47995"	Longitude W89°34'19.45341"	Ellipsoid Height (US ft) 182.36	
Location Photo  NORTH				
 <p>2096_2020_TN, 3W, 20200109</p>		 <p>2096_2020_TN, 3S, 20200109</p>		



GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 2097_2019_TN	Northing (US ft) 394506.87	Easting (US ft) 1242319.30	Elevation (US ft) 514.12	
Point Type NVA	Latitude N35°23'32.22772"	Longitude W88°26'11.84306"	Ellipsoid Height (US ft) 422.84	
Location Photo  NORTH				







2097_2019_TN, 3W, 20191218



2097_2019_TN, 3N, 20191218





GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 2098_2020_TN	Northing (US ft) 559039.48	Easting (US ft) 964029.38	Elevation (US ft) 298.90	
Point Type NVA	Latitude N35°49'16.87261"	Longitude W89°23'19.91503"	Ellipsoid Height (US ft) 207.17	
Location Photo  NORTH				
 <p>2098_2020_TN, 3N, 20200108</p>		 <p>2098_2020_TN, 3E, 20200108</p>		



GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 2099_2019_TN	Northing (US ft) 514941.51	Easting (US ft) 1187491.77	Elevation (US ft) 535.10	
Point Type NVA	Latitude N35°43'08.91205"	Longitude W88°37'52.92643"	Ellipsoid Height (US ft) 442.45	
Location Photo  NORTH				







2099_2019_TN, 3S, 20191212



2099_2019_TN, 3E, 20191212







GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 2100_2020_TN	Northing (US ft) 590771.57	Easting (US ft) 1060232.52	Elevation (US ft) 334.54	
Point Type NVA	Latitude N35°55'01.90549"	Longitude W89°04'04.35086"	Ellipsoid Height (US ft) 241.99	
Location Photo  NORTH				
 <p>2100_2020_TN_3N_20200131</p>		 <p>2100_2020_TN_3E_20200131</p>		







GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 2101_2019_TN	Northing (US ft) 521954.52	Easting (US ft) 872030.63	Elevation (US ft) 330.62	
Point Type NVA	Latitude N35°42'37.42503"	Longitude W89°41'39.28468"	Ellipsoid Height (US ft) 240.24	
Location Photo  NORTH				
 <p>2101_2019_TN, 3S, 20190227</p>		 <p>2101_2019_TN, 3E, 20190227</p>		







GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 2102_2019_TN	Northing (US ft) 478196.39	Easting (US ft) 1098909.49	Elevation (US ft) 409.56	
Point Type NVA	Latitude N35°36'40.77492"	Longitude W88°55'33.42077"	Ellipsoid Height (US ft) 317.00	
Location Photo  NORTH				
 <p>2102_2019_TN, 3W, 20191211</p>		 <p>2102_2019_TN, 3N, 20191211</p>		





GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 2103_2019_TN	Northing (US ft) 720752.35	Easting (US ft) 1168097.07	Elevation (US ft) 445.68	
Point Type NVA	Latitude N36°16'58.28084"	Longitude W88°42'57.30509"	Ellipsoid Height (US ft) 352.97	
Location Photo  NORTH				
 <p>2103_2019_TN, 3S, 20190303</p>		 <p>2103_2019_TN, 3E, 20190303</p>		



GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 2103A_2019_TN	Northing (US ft) 720887.84	Easting (US ft) 1168396.68	Elevation (US ft) 436.15	
Point Type NVA	Latitude N36°16'59.70237"	Longitude W88°42'53.69301"	Ellipsoid Height (US ft) 343.44	
Location Photo  NORTH				




2103A_2019_TN, 3N, 20190303



2103A_2019_TN, 3E, 20190303



GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 2104_2019_TN	Northing (US ft) 778096.90	Easting (US ft) 1145664.26	Elevation (US ft) 404.56	
Point Type NVA	Latitude N36°26'18.86402"	Longitude W88°47'51.20372"	Ellipsoid Height (US ft) 311.97	
Location Photo ↑ NORTH				





2104_2019_TN, 3S, 20190304



2104_2019_TN, 3E, 20190304



GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 2105_2019_TN	Northing (US ft) 544161.11	Easting (US ft) 886934.13	Elevation (US ft) 456.64	
Point Type NVA	Latitude N35°46'22.42062"	Longitude W89°38'48.71770"	Ellipsoid Height (US ft) 365.75	
Location Photo  NORTH				







2105_2019_TN, 3S, 20190301



2105_2019_TN, 3E, 20190301


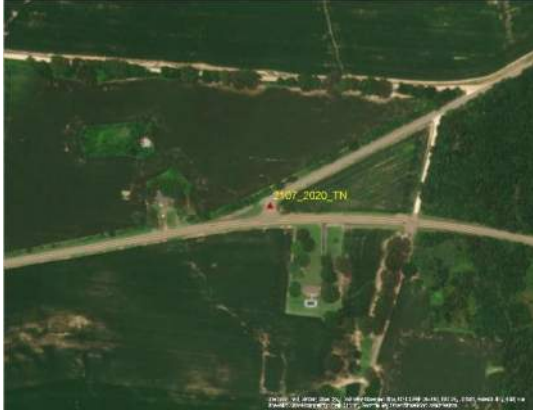




GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 2106_2020_TN	Northing (US ft) 668968.78	Easting (US ft) 1128008.60	Elevation (US ft) 313.98	
Point Type NVA	Latitude N36°08'15.13361"	Longitude W88°50'48.34023"	Ellipsoid Height (US ft) 221.29	
Location Photo  NORTH				
 <p>2106_2020_TN, 3S, 20200113</p>		 <p>2106_2020_TN, 3E, 20200113</p>		







GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 2107_2020_TN	Northing (US ft) 635063.36	Easting (US ft) 1019806.58	Elevation (US ft) 291.77	
Point Type NVA	Latitude N36°02'06.88930"	Longitude W89°12'33.23249"	Ellipsoid Height (US ft) 199.11	
Location Photo  NORTH				
 <p>2107_2020_TN, 3N, 20200108</p>		 <p>2107_2020_TN, 3E, 20200108</p>		







GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 2108_2019_TN	Northing (US ft) 484810.76	Easting (US ft) 853882.53	Elevation (US ft) 288.34	
Point Type NVA	Latitude N35°36'23.50999"	Longitude W89°45'01.93574"	Ellipsoid Height (US ft) 198.71	
Location Photo  NORTH				
 <p>2108_2019_TN, 3S, 20190302</p>		 <p>2108_2019_TN, 3E, 20190302</p>		



GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 2109A_2019_TN	Northing (US ft) 542163.09	Easting (US ft) 1043294.88	Elevation (US ft) 374.13	
Point Type NVA	Latitude N35°46'56.12137"	Longitude W89°07'11.33519"	Ellipsoid Height (US ft) 281.85	
Location Photo  NORTH				
 <p>2109A_2019_TN_3W, 20191216</p>		 <p>2109A_2019_TN_3N, 20191216</p>		



GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)





Station ID 2109B_2019_TN	Northing (US ft) 542161.44	Easting (US ft) 1043335.86	Elevation (US ft) 374.41
Point Type NVA	Latitude N35°46'56.11797"	Longitude W89°07'10.83744"	Ellipsoid Height (US ft) 282.13

<p>Location Photo</p>  <p>NORTH</p>		
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GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 2110_2019_TN	Northing (US ft) 594806.83	Easting (US ft) 931473.55	Elevation (US ft) 273.16	
Point Type NVA	Latitude N35°54'59.05130"	Longitude W89°30'10.53595"	Ellipsoid Height (US ft) 181.04	
Location Photo  NORTH				
 <p>2110_2019_TN, 3N, 20190302</p>		 <p>2110_2019_TN, 3E, 20190302</p>		







GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 2111_2020_TN	Northing (US ft) 792588.80	Easting (US ft) 1031917.86	Elevation (US ft) 475.55	
Point Type NVA	Latitude N36°28'07.72118"	Longitude W89°11'08.26602"	Ellipsoid Height (US ft) 383.08	
Location Photo  NORTH				





GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 2112_2019_TN	Northing (US ft) 503630.01	Easting (US ft) 1015449.57	Elevation (US ft) 358.74	
Point Type NVA	Latitude N35°40'26.32436"	Longitude W89°12'33.78460"	Ellipsoid Height (US ft) 266.91	
Location Photo  NORTH				
 <p>2112_2019_TN, 3N, 20191214</p>		 <p>2112_2019_TN, 3E, 20191214</p>		



GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 2113_2019_TN	Northing (US ft) 459246.21	Easting (US ft) 875960.07	Elevation (US ft) 378.47	
Point Type NVA	Latitude N35°32'19.13293"	Longitude W89°40'23.13589"	Ellipsoid Height (US ft) 289.04	
Location Photo  NORTH				







2113_2019_TN, 3NW, 20190302



2113_2019_TN, 3NE, 20190302







GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 2114_2020_TN	Northing (US ft) 695086.79	Easting (US ft) 1169441.02	Elevation (US ft) 374.71	
Point Type NVA	Latitude N36°12'44.94195"	Longitude W88°42'32.22067"	Ellipsoid Height (US ft) 281.97	
Location Photo  NORTH				
 <p>2114_2020_TN, 3W, 20200113</p>		 <p>2114_2020_TN, 3N, 20200113</p>		







GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 2115_2020_TN	Northing (US ft) 794029.35	Easting (US ft) 1010106.57	Elevation (US ft) 362.32	
Point Type NVA	Latitude N36°28'14.85702"	Longitude W89°15'35.73300"	Ellipsoid Height (US ft) 269.71	
Location Photo  NORTH				
 <p>2115_2020_TN, 3S, 20200114</p>		 <p>2115_2020_TN, 3E, 20200114</p>		







GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 2116_2019_TN	Northing (US ft) 760063.62	Easting (US ft) 1091636.80	Elevation (US ft) 314.31	
Point Type NVA	Latitude N36°23'04.85609"	Longitude W88°58'45.36663"	Ellipsoid Height (US ft) 221.77	
Location Photo  NORTH				
 <p>2116_2019_TN, 3NW, 20190304</p>		 <p>2116_2019_TN, 3NE, 20190304</p>		



GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 2117_2019_TN	Northing (US ft) 518193.79	Easting (US ft) 1148343.32	Elevation (US ft) 428.36	
Point Type NVA	Latitude N35°43'30.39498"	Longitude W88°45'48.62920"	Ellipsoid Height (US ft) 335.70	
Location Photo  NORTH				
 <p>2117_2019_TN, 3W, 20191212</p>		 <p>2117_2019_TN, 3N, 20191212</p>		



GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 2118A_2019_TN	Northing (US ft) 493106.19	Easting (US ft) 1057761.59	Elevation (US ft) 434.68	
Point Type NVA	Latitude N35°38'55.70996"	Longitude W89°03'57.18605"	Ellipsoid Height (US ft) 342.45	
Location Photo  NORTH				







2118A_2019_TN, 3W, 20191214



2118A_2019_TN, 3N, 20191214







GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 2118B_2019_TN	Northing (US ft) 493108.92	Easting (US ft) 1057852.86	Elevation (US ft) 435.57	
Point Type NVA	Latitude N35°38'55.76523"	Longitude W89°03'56.08173"	Ellipsoid Height (US ft) 343.34	
Location Photo  NORTH				
 <p>2118B_2019_TN, 3W, 20191214</p>		 <p>2118B_2019_TN, 3N, 20191214</p>		







GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 2119_2019_TN	Northing (US ft) 398621.56	Easting (US ft) 1216844.36	Elevation (US ft) 538.20	
Point Type NVA	Latitude N35°24'06.52744"	Longitude W88°31'20.71244"	Ellipsoid Height (US ft) 446.61	
Location Photo  NORTH				
 <p>2119_2019_TN, 3W, 20191217</p>		 <p>2119_2019_TN, 3N, 20191217</p>		



GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 2120_2019_TN	Northing (US ft) 551364.51	Easting (US ft) 911613.81	Elevation (US ft) 481.10	
Point Type NVA	Latitude N35°47'42.60409"	Longitude W89°33'52.59171"	Ellipsoid Height (US ft) 389.99	
Location Photo  NORTH				
 <p>2120_2019_TN, 3W, 20190228</p>		 <p>2120_2019_TN, 3N, 20190228</p>		



GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 2121_2019_TN	Northing (US ft) 466331.50	Easting (US ft) 928540.01	Elevation (US ft) 276.12	
Point Type NVA	Latitude N35°33'48.20691"	Longitude W89°29'50.37318"	Ellipsoid Height (US ft) 185.91	
Location Photo  NORTH				
 <p>2121_2019_TN, 3W, 20191219</p>		 <p>2121_2019_TN, 3N, 20191219</p>		



GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 2122_2020_TN	Northing (US ft) 442655.39	Easting (US ft) 897605.87	Elevation (US ft) 325.13	
Point Type NVA	Latitude N35°29'43.11023"	Longitude W89°35'54.01328"	Ellipsoid Height (US ft) 235.40	
Location Photo ↑ NORTH				







2122_2020_TN_3N_20200201



2122_2020_TN_3E_20200201





GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 2123_2019_TN	Northing (US ft) 491767.37	Easting (US ft) 976827.63	Elevation (US ft) 341.34	
Point Type NVA	Latitude N35°38'16.29247"	Longitude W89°20'16.73738"	Ellipsoid Height (US ft) 250.11	
Location Photo  NORTH				
 <p>2123_2019_TN, 3S, 20191219</p>		 <p>2123_2019_TN, 3E, 20191219</p>		



GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 2124_2020_TN	Northing (US ft) 763216.86	Easting (US ft) 948389.71	Elevation (US ft) 300.10	
Point Type NVA	Latitude N36°22'49.38555"	Longitude W89°27'57.49928"	Ellipsoid Height (US ft) 206.98	
Location Photo  NORTH				



2124_2020_TN, 3W, 20200110



2124_2020_TN, 3N, 20200110



GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)





Station ID 2125_2020_TN	Northing (US ft) 798284.94	Easting (US ft) 1052576.75	Elevation (US ft) 365.78
Point Type NVA	Latitude N36°29'10.59202"	Longitude W89°06'57.69467"	Ellipsoid Height (US ft) 273.43

<p>Location Photo</p>  <p>NORTH</p>		
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GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 2126_2019_TN	Northing (US ft) 448028.98	Easting (US ft) 839418.16	Elevation (US ft) 345.46	
Point Type NVA	Latitude N35°30'14.48801"	Longitude W89°47'39.70976"	Ellipsoid Height (US ft) 256.04	
Location Photo  NORTH				
 <p>2126_2019_TN, 3SW, 20190225</p>		 <p>2126_2019_TN, 3SE, 20190225</p>		




GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 2127_2020_TN	Northing (US ft) 786775.89	Easting (US ft) 957062.30	Elevation (US ft) 303.15	
Point Type NVA	Latitude N36°26'45.22646"	Longitude W89°26'21.63060"	Ellipsoid Height (US ft) 210.07	
Location Photo  NORTH				
 <p>2127_2020_TN, 3N, 20200114</p>		 <p>2127_2020_TN, 3E, 20200114</p>		



GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 2128_2019_TN	Northing (US ft) 640840.55	Easting (US ft) 1100170.10	Elevation (US ft) 439.49	
Point Type NVA	Latitude N36°03'28.95063"	Longitude W88°56'17.28835"	Ellipsoid Height (US ft) 346.76	
Location Photo  NORTH				







2128_2019_TN, 3S, 20191215



2128_2019_TN, 3E, 20191215







GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 2129_2019_TN	Northing (US ft) 647275.21	Easting (US ft) 1079763.24	Elevation (US ft) 322.20	
Point Type NVA	Latitude N36°04'26.42662"	Longitude W89°00'28.12156"	Ellipsoid Height (US ft) 229.48	
Location Photo  NORTH				
 <p>2129_2019_TN, 3N, 20191216</p>		 <p>2129_2019_TN, 3E, 20191216</p>		







GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 2130_2019_TN	Northing (US ft) 573794.56	Easting (US ft) 1125092.53	Elevation (US ft) 397.53	
Point Type NVA	Latitude N35°52'33.46529"	Longitude W88°50'50.12430"	Ellipsoid Height (US ft) 304.81	
Location Photo  NORTH				
 <p>2130_2019_TN, 3NW, 20191215</p>		 <p>2130_2019_TN, 3NE, 20191215</p>		





GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 2131_2019_TN	Northing (US ft) 484828.37	Easting (US ft) 2133505.54	Elevation (US ft) 1871.35	
Point Type NVA	Latitude N35°39'50.30646"	Longitude W85°26'40.24411"	Ellipsoid Height (US ft) 1777.47	
Location Photo  NORTH				
 <p>2131_2019_TN, 3SE, 20190203</p>		 <p>2131_2019_TN, 3NE, 20190203</p>		



GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 2132_2019_TN	Northing (US ft) 403802.31	Easting (US ft) 2163170.14	Elevation (US ft) 744.99	
Point Type NVA	Latitude N35°26'27.14545"	Longitude W85°20'47.29626"	Ellipsoid Height (US ft) 649.45	
Location Photo  NORTH				







2132_2019_TN, 3SW, 20190206



2132_2019_TN, 3NW, 20190206







GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 2133A_2019_TN	Northing (US ft) 493249.92	Easting (US ft) 2103106.94	Elevation (US ft) 1870.56	
Point Type NVA	Latitude N35°41'15.14461"	Longitude W85°32'48.17604"	Ellipsoid Height (US ft) 1776.41	
Location Photo  NORTH				
 <p>2133A_2019_TN, 3W, 20190204</p>		 <p>2133A_2019_TN, 3S, 20190204</p>		






GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 2134_2019_TN	Northing (US ft) 387514.37	Easting (US ft) 2154263.85	Elevation (US ft) 768.66	
Point Type NVA	Latitude N35°23'46.63102"	Longitude W85°22'36.18471"	Ellipsoid Height (US ft) 673.20	
Location Photo  NORTH				
 <p>2134_2019_TN, 3SE, 20190205</p>		 <p>2134_2019_TN, 3NE, 20190205</p>		







GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 2135_2019_TN	Northing (US ft) 531919.56	Easting (US ft) 2180972.85	Elevation (US ft) 1777.04	
Point Type NVA	Latitude N35°47'32.97893"	Longitude W85°17'00.81264"	Ellipsoid Height (US ft) 1682.63	
Location Photo  NORTH				
 <p>2135_2019_TN, 3NW, 20190203</p>		 <p>2135_2019_TN, 3NE, 20190203</p>		







GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 2136_2019_TN	Northing (US ft) 472030.26	Easting (US ft) 2123785.67	Elevation (US ft) 1878.93	
Point Type NVA	Latitude N35°37'44.26299"	Longitude W85°28'38.86820"	Ellipsoid Height (US ft) 1785.12	
Location Photo  NORTH				
 <p>2136_2019_TN, 3N, 20190203</p>		 <p>2136_2019_TN, 3E, 20190203</p>		



GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 2136A_2019_TN	Northing (US ft) 472064.63	Easting (US ft) 2124016.59	Elevation (US ft) 1877.18	
Point Type NVA	Latitude N35°37'44.59072"	Longitude W85°28'36.06863"	Ellipsoid Height (US ft) 1783.37	
Location Photo  NORTH				
 <p>2136A_2019_TN, 3S, 20190203</p>		 <p>2136A_2019_TN, 3E, 20190203</p>		



GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)





Station ID 2136B_2019_TN	Northing (US ft) 472048.64	Easting (US ft) 2124017.57	Elevation (US ft) 1877.40
Point Type NVA	Latitude N35°37'44.43254"	Longitude W85°28'36.05780"	Ellipsoid Height (US ft) 1783.58

<p>Location Photo</p>  <p>NORTH</p>		
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GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 2137_2019_TN	Northing (US ft) 543835.67	Easting (US ft) 2130546.60	Elevation (US ft) 999.93	
Point Type NVA	Latitude N35°49'34.04373"	Longitude W85°27'12.10939"	Ellipsoid Height (US ft) 905.12	
Location Photo  NORTH				
 <p>2137_2019_TN, 3N, 20190203</p>		 <p>2137_2019_TN, 3E, 20190203</p>		







GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 2138_2019_TN	Northing (US ft) 323181.90	Easting (US ft) 2150426.40	Elevation (US ft) 2008.38	
Point Type NVA	Latitude N35°13'10.61462"	Longitude W85°23'27.37134"	Ellipsoid Height (US ft) 1913.11	
Location Photo  NORTH				
 <p>2138_2019_TN, 3W, 20190207</p>		 <p>2138_2019_TN, 3N, 20190207</p>		







GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 2138A_2019_TN	Northing (US ft) 322688.66	Easting (US ft) 2150528.93	Elevation (US ft) 1980.66	
Point Type NVA	Latitude N35°13'05.73011"	Longitude W85°23'26.17269"	Ellipsoid Height (US ft) 1885.37	
Location Photo  NORTH	 <p>2138A_2019_TN, 3W, 20190207</p>			
 <p>2138A_2019_TN, 3N, 20190207</p>		 <p>2138A_2019_TN, 2, 20190207</p>		







GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 2139_2019_TN	Northing (US ft) 422667.46	Easting (US ft) 2107414.98	Elevation (US ft) 1824.69	
Point Type NVA	Latitude N35°29'36.87963"	Longitude W85°32'00.03090"	Ellipsoid Height (US ft) 1730.67	
Location Photo  NORTH				
 <p>2139_2019_TN, 3NW, 20190206</p>		 <p>2139_2019_TN, 3NE, 20190206</p>		



GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 2140_2019_TN	Northing (US ft) 415982.13	Easting (US ft) 2128978.35	Elevation (US ft) 2114.22	
Point Type NVA	Latitude N35°28'29.66513"	Longitude W85°27'39.70438"	Ellipsoid Height (US ft) 2019.98	
Location Photo  NORTH				
 <p>2140_2019_TN, 3SW, 20190205</p>		 <p>2140_2019_TN, 3SE, 20190205</p>		



GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 2141A_2019_TN	Northing (US ft) 514588.35	Easting (US ft) 2128477.86	Elevation (US ft) 1791.48	
Point Type NVA	Latitude N35°44'44.90752"	Longitude W85°27'39.18815"	Ellipsoid Height (US ft) 1697.35	
Location Photo  NORTH				





2141A_2019_TN, 3S, 20190203



2141A_2019_TN, 3E, 20190203



GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 2141B_2019_TN	Northing (US ft) 514538.63	Easting (US ft) 2128474.16	Elevation (US ft) 1794.53	
Point Type NVA	Latitude N35°44'44.41608"	Longitude W85°27'39.23640"	Ellipsoid Height (US ft) 1700.40	
Location Photo  NORTH				





2141B_2019_TN, 3W, 20190203



2141B_2019_TN, 3N, 20190203



GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 2142A_2019_TN	Northing (US ft) 380364.24	Easting (US ft) 2192602.91	Elevation (US ft) 1931.81	
Point Type NVA	Latitude N35°22'33.25218"	Longitude W85°14'53.77262"	Ellipsoid Height (US ft) 1835.87	
Location Photo  NORTH				



2142A_2019_TN, 3S, 20190224



2142A_2019_TN, 3E, 20190224



GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)

Station ID 2142B_2019_TN	Northing (US ft) 380378.84	Easting (US ft) 2192650.69	Elevation (US ft) 1932.89
Point Type NVA	Latitude N35°22'33.39290"	Longitude W85°14'53.19438"	Ellipsoid Height (US ft) 1836.95

Location Photo



NORTH





2141B_2019_TN, 3W, 20190203



2141B_2019_TN, 3N, 20190203



GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)





Station ID 2143_2019_TN	Northing (US ft) 535002.95	Easting (US ft) 2095670.47	Elevation (US ft) 849.82
Point Type NVA	Latitude N35°48'08.40919"	Longitude W85°34'16.10830"	Ellipsoid Height (US ft) 754.78

<p>Location Photo</p>  <p>NORTH</p>		
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GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 2143A_2019_TN	Northing (US ft) 535002.03	Easting (US ft) 2095671.19	Elevation (US ft) 849.81	
Point Type NVA	Latitude N35°48'08.40000"	Longitude W85°34'16.09958"	Ellipsoid Height (US ft) 754.78	
Location Photo  NORTH				
 <p>2143A_2019_TN, 3SW, 20190203</p>		 <p>2143A_2019_TN, 3NW, 20190203</p>		



GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 2144_2019_TN	Northing (US ft) 357164.65	Easting (US ft) 2137239.33	Elevation (US ft) 713.45	
Point Type NVA	Latitude N35°18'47.49126"	Longitude W85°26'03.93516"	Ellipsoid Height (US ft) 618.20	
Location Photo  NORTH				







2144_2019_TN, 3NW, 20190206



2144_2019_TN, 3NE, 20190206







GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 2145_2019_TN	Northing (US ft) 348381.56	Easting (US ft) 2185617.80	Elevation (US ft) 1752.13	
Point Type NVA	Latitude N35°17'17.46470"	Longitude W85°16'20.99139"	Ellipsoid Height (US ft) 1656.06	
Location Photo  NORTH				
 <p>2145_2019_TN, 3N, 20190224</p>		 <p>2145_2019_TN, 3E, 20190224</p>		







GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 2146_2019_TN	Northing (US ft) 357587.41	Easting (US ft) 2151598.69	Elevation (US ft) 719.55	
Point Type NVA	Latitude N35°18'50.81681"	Longitude W85°23'10.64272"	Ellipsoid Height (US ft) 624.03	
Location Photo  NORTH				
 <p>2146_2019_TN, 3NW, 20190206</p>		 <p>2146_2019_TN, 3NE, 20190206</p>		




GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 3001_2019_TN	Northing (US ft) 435204.04	Easting (US ft) 804437.84	Elevation (US ft) 431.38	
Point Type VVA	Latitude N35°27'54.13023"	Longitude W89°54'36.26482"	Ellipsoid Height (US ft) 341.62	
Location Photo  NORTH				
 <p>3001_2019_TN, 3N, 20190226</p>		 <p>3001_2019_TN, 3E, 20190226</p>		



GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 3002_2019_TN	Northing (US ft) 451384.85	Easting (US ft) 796340.63	Elevation (US ft) 258.37	
Point Type VVA	Latitude N35°30'30.82320"	Longitude W89°56'21.94563"	Ellipsoid Height (US ft) 168.35	
Location Photo ↑ NORTH				







3002_2019_TN, 3S, 20190225



3002_2019_TN, 3E, 20190225







GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 3003_2019_TN	Northing (US ft) 465183.05	Easting (US ft) 839640.05	Elevation (US ft) 300.57	
Point Type VVA	Latitude N35°33'04.10320"	Longitude W89°47'45.07319"	Ellipsoid Height (US ft) 211.07	
Location Photo  NORTH				
 <p>3003_2019_TN, 3W, 20190225</p>		 <p>3003_2019_TN, 3N, 20190225</p>		







GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 3004_2019_TN	Northing (US ft) 458729.55	Easting (US ft) 1209191.76	Elevation (US ft) 476.01	
Point Type VVA	Latitude N35°33'58.84823"	Longitude W88°33'12.06253"	Ellipsoid Height (US ft) 383.78	
Location Photo  NORTH				
 <p>3004_2019_TN, 3W, 20191217</p>		 <p>3004_2019_TN, 3N, 20191217</p>		







GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 3005A_2019_TN	Northing (US ft) 422706.33	Easting (US ft) 2107471.18	Elevation (US ft) 1828.11	
Point Type VVA	Latitude N35°29'37.26135"	Longitude W85°31'59.34906"	Ellipsoid Height (US ft) 1734.09	
Location Photo  NORTH				
 <p>3005A_2019_TN, 3NW, 20190206</p>		 <p>3005A_2019_TN, 3NE, 20190206</p>		







GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 3006_2019_TN	Northing (US ft) 416337.63	Easting (US ft) 2128923.03	Elevation (US ft) 2106.58	
Point Type VVA	Latitude N35°28'33.18407"	Longitude W85°27'40.34951"	Ellipsoid Height (US ft) 2012.34	
Location Photo  NORTH				
 <p>3006_2019_TN, 3W, 20190205</p>		 <p>3006_2019_TN, 3N, 20190205</p>		







GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH	
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)	
Station ID 3006A_2019_TN	Northing (US ft) 416234.46	Easting (US ft) 2129057.75	Elevation (US ft) 2092.49		
Point Type VVA	Latitude N35°28'32.15637"	Longitude W85°27'38.72762"	Ellipsoid Height (US ft) 1998.25		
Location Photo  NORTH					
 <p>3006A_2019_TN, 3SW, 20190205</p>		 <p>3006A_2019_TN, 3NW, 20190205</p>			







GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 3007_2019_TN	Northing (US ft) 326063.86	Easting (US ft) 2149124.83	Elevation (US ft) 2054.15	
Point Type VVA	Latitude N35°13'39.19740"	Longitude W85°23'42.84319"	Ellipsoid Height (US ft) 1958.92	
Location Photo  NORTH				
 <p>3007_2019_TN, 3NW, 20190207</p>		 <p>3007_2019_TN, 3NE, 20190207</p>		







GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 3008_2019_TN	Northing (US ft) 345956.49	Easting (US ft) 1143482.53	Elevation (US ft) 468.55	
Point Type VVA	Latitude N35°15'06.25121"	Longitude W88°45'48.58117"	Ellipsoid Height (US ft) 376.71	
Location Photo  NORTH				
 <p>3008_2019_TN, 3S, 20191217</p>		 <p>3008_2019_TN, 3E, 20191217</p>		







GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 3009_2019_TN	Northing (US ft) 417687.89	Easting (US ft) 1256731.13	Elevation (US ft) 517.22	
Point Type VVA	Latitude N35°27'24.93944"	Longitude W88°23'24.66366"	Ellipsoid Height (US ft) 425.67	
Location Photo  NORTH				
 <p>3009_2019_TN, 3S, 20191218</p>		 <p>3009_2019_TN, 3E, 20191218</p>		







GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 3010_2019_TN	Northing (US ft) 461727.03	Easting (US ft) 1035900.81	Elevation (US ft) 451.81	
Point Type VVA	Latitude N35°33'38.67141"	Longitude W89°08'09.75474"	Ellipsoid Height (US ft) 359.96	
Location Photo  NORTH				
 <p>3010_2019_TN, 3W, 20191219</p>		 <p>3010_2019_TN, 3N, 20191219</p>		


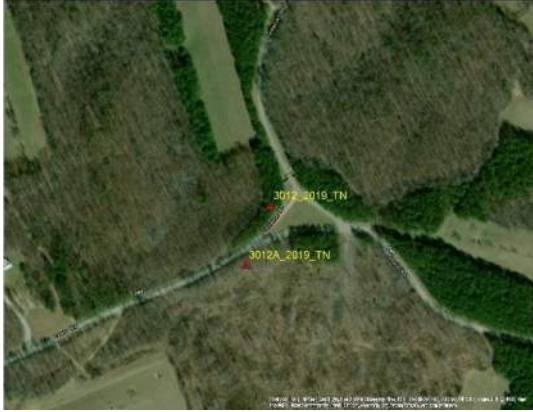




GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 3011_2019_TN	Northing (US ft) 517338.02	Easting (US ft) 885936.39	Elevation (US ft) 348.47	
Point Type VVA	Latitude N35°41'56.95664"	Longitude W89°38'48.69057"	Ellipsoid Height (US ft) 258.18	
Location Photo  NORTH				
 <p>3011_2019_TN, 3W, 20190227</p>		 <p>3011_2019_TN, 3S, 20190227</p>		







GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 3012_2019_TN	Northing (US ft) 531905.49	Easting (US ft) 2180876.21	Elevation (US ft) 1770.38	
Point Type VVA	Latitude N35°47'32.84676"	Longitude W85°17'01.98701"	Ellipsoid Height (US ft) 1675.97	
Location Photo  NORTH				
 <p>3012_2019_TN, 3S, 20190203</p>		 <p>3012_2019_TN, 3E, 20190203</p>		







GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 3012A_2019_TN	Northing (US ft) 531659.80	Easting (US ft) 2180774.92	Elevation (US ft) 1772.81	
Point Type VVA	Latitude N35°47'30.42428"	Longitude W85°17'03.23827"	Ellipsoid Height (US ft) 1678.41	
Location Photo  NORTH				
 <p>3012A_2019_TN, 3S, 20190203</p>		 <p>3012A_2019_TN, 3NW, 20190203</p>		







GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 3013A_2019_TN	Northing (US ft) 493133.17	Easting (US ft) 2103152.91	Elevation (US ft) 1870.26	
Point Type VVA	Latitude N35°41'13.98787"	Longitude W85°32'47.62528"	Ellipsoid Height (US ft) 1776.12	
Location Photo  NORTH				
 <p>3013A_2019_TN, 3V, 20190204</p>		 <p>3013A_2019_TN, 3N, 20190204</p>		







GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 3014_2019_TN	Northing (US ft) 446604.54	Easting (US ft) 2101386.74	Elevation (US ft) 1882.23	
Point Type VVA	Latitude N35°33'33.89842"	Longitude W85°33'11.61101"	Ellipsoid Height (US ft) 1788.34	
Location Photo  NORTH				
 <p>3014_2019_TN, 3SW, 20190205</p>		 <p>3014_2019_TN, 3SE, 20190205</p>		







GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 3014A_2019_TN	Northing (US ft) 446451.57	Easting (US ft) 2101480.37	Elevation (US ft) 1881.84	
Point Type VVA	Latitude N35°33'32.38131"	Longitude W85°33'10.48618"	Ellipsoid Height (US ft) 1787.95	
Location Photo  NORTH				
 <p>3014A_2019_TN, 3SW, 20190205</p>		 <p>3014A_2019_TN, 3NW, 20190205</p>		







GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 3015_2019_TN	Northing (US ft) 402675.18	Easting (US ft) 1263338.13	Elevation (US ft) 395.79	
Point Type VVA	Latitude N35°24'58.09133"	Longitude W88°22'00.43392"	Ellipsoid Height (US ft) 304.42	
Location Photo  NORTH				
 <p>3015_2019_TN, 3N, 20191218</p>		 <p>3015_2019_TN, 3E, 20191218</p>		







GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 3016_2019_TN	Northing (US ft) 426673.29	Easting (US ft) 1193317.10	Elevation (US ft) 399.27	
Point Type VVA	Latitude N35°28'37.77830"	Longitude W88°36'13.82643"	Ellipsoid Height (US ft) 307.11	
Location Photo  NORTH				
 <p>3016_2019_TN, 3S, 20191217</p>		 <p>3016_2019_TN, 3E, 20191217</p>		







GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 3017_2019_TN	Northing (US ft) 770136.88	Easting (US ft) 1208397.08	Elevation (US ft) 374.98	
Point Type VVA	Latitude N36°25'17.23425"	Longitude W88°35'01.17745"	Ellipsoid Height (US ft) 281.98	
Location Photo  NORTH				
 <p>3017_2019_TN, 3N, 20190304</p>		 <p>3017_2019_TN, 3E, 20190304</p>		







GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 3018_2020_TN	Northing (US ft) 743598.07	Easting (US ft) 1077086.08	Elevation (US ft) 304.44	
Point Type VVA	Latitude N36°20'17.69750"	Longitude W89°01'37.00428"	Ellipsoid Height (US ft) 211.78	
Location Photo  NORTH				
 <p>3018_2020_TN, 3W, 20200112</p>		 <p>3018_2020_TN, 3S, 20200112</p>		


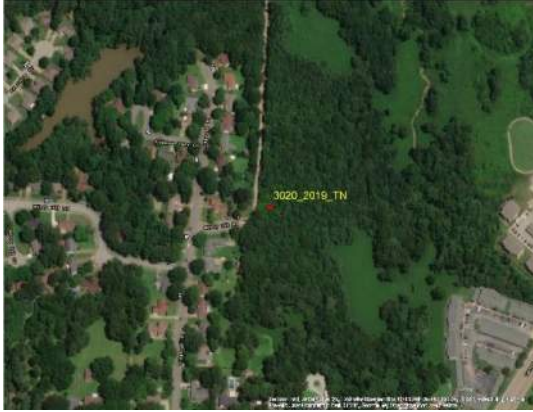




GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 3019_2020_TN	Northing (US ft) 747191.34	Easting (US ft) 983594.85	Elevation (US ft) 440.81	
Point Type VVA	Latitude N36°20'23.12243"	Longitude W89°20'40.53213"	Ellipsoid Height (US ft) 347.89	
Location Photo  NORTH				
 <p>3019_2020_TN, 3W, 20200110</p>		 <p>3019_2020_TN, 3S, 20200110</p>		







GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 3020_2019_TN	Northing (US ft) 498598.88	Easting (US ft) 1132398.15	Elevation (US ft) 521.29	
Point Type VVA	Latitude N35°40'12.18475"	Longitude W88°48'55.10524"	Ellipsoid Height (US ft) 428.62	
Location Photo  NORTH				
 <p>3020_2019_TN, 3W, 20191212</p>		 <p>3020_2019_TN, 3S, 20191212</p>		







GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 3021_2019_TN	Northing (US ft) 466807.54	Easting (US ft) 930971.68	Elevation (US ft) 265.76	
Point Type VVA	Latitude N35°33'53.77026"	Longitude W89°29'21.16431"	Ellipsoid Height (US ft) 175.49	
Location Photo  NORTH				
 <p>3021_2019_TN, 3SW, 20191219</p>		 <p>3021_2019_TN, 3NW, 20191219</p>		







GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 3022_2019_TN	Northing (US ft) 489641.36	Easting (US ft) 821895.38	Elevation (US ft) 397.38	
Point Type VVA	Latitude N35°36'58.95400"	Longitude W89°51'31.32273"	Ellipsoid Height (US ft) 307.28	
Location Photo  NORTH				
 <p>3022_2019_TN, 3W, 20190228</p>		 <p>3022_2019_TN, 3S, 20190228</p>		







GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 3023_2019_TN	Northing (US ft) 550140.89	Easting (US ft) 914098.98	Elevation (US ft) 445.49	
Point Type VVA	Latitude N35°47'31.40452"	Longitude W89°33'21.90408"	Ellipsoid Height (US ft) 354.39	
Location Photo  NORTH				
 <p>3023_2019_TN, 3N, 20190228</p>		 <p>3023_2019_TN, 3E, 20190228</p>		







GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 3024_2020_TN	Northing (US ft) 780845.77	Easting (US ft) 998560.06	Elevation (US ft) 314.82	
Point Type VVA	Latitude N36°26'00.74311"	Longitude W89°17'51.57866"	Ellipsoid Height (US ft) 222.07	
Location Photo  NORTH				
 <p>3024_2020_TN, 3W, 20200114</p>		 <p>3024_2020_TN, 3S, 20200114</p>		







GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 3025_2020_TN	Northing (US ft) 794204.07	Easting (US ft) 1010181.95	Elevation (US ft) 333.71	
Point Type VVA	Latitude N36°28'16.60860"	Longitude W89°15'34.88187"	Ellipsoid Height (US ft) 241.10	
Location Photo  NORTH				
 <p>3025_2020_TN, 3W, 20200114</p>		 <p>3025_2020_TN, 3N, 20200114</p>		







GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 3026_2020_TN	Northing (US ft) 727230.61	Easting (US ft) 1193319.58	Elevation (US ft) 492.28	
Point Type VVA	Latitude N36°18'09.13162"	Longitude W88°37'51.47772"	Ellipsoid Height (US ft) 399.47	
Location Photo  NORTH				
 <p>3026_2020_TN, 3N, 20200113</p>		 <p>3026_2020_TN, 3E, 20200113</p>		





GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 3027_2020_TN	Northing (US ft) 704906.56	Easting (US ft) 1176924.47	Elevation (US ft) 350.93	
Point Type VVA	Latitude N36°14'24.05148"	Longitude W88°41'04.22051"	Ellipsoid Height (US ft) 258.17	
Location Photo  NORTH				
 <p>3027_2020_TN, 3S, 20200113</p>		 <p>3027_2020_TN, 3E, 20200113</p>		



GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 3028_2019_TN	Northing (US ft) 790901.54	Easting (US ft) 1168352.51	Elevation (US ft) 418.69	
Point Type VVA	Latitude N36°28'31.75426"	Longitude W88°43'18.01040"	Ellipsoid Height (US ft) 326.02	
Location Photo  NORTH				







3028_2019_TN, 3SW, 20190304



3028_2019_TN, 3SE, 20190304







GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 3029_2019_TN	Northing (US ft) 778156.05	Easting (US ft) 1145555.93	Elevation (US ft) 403.09	
Point Type VVA	Latitude N36°26'19.41798"	Longitude W88°47'52.54962"	Ellipsoid Height (US ft) 310.50	
Location Photo  NORTH				
 <p>3029_2019_TN, 3SW, 20190304</p>		 <p>3029_2019_TN, 3SE, 20190304</p>		



GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 3030_2020_TN	Northing (US ft) 792710.72	Easting (US ft) 1031926.15	Elevation (US ft) 477.59	
Point Type VVA	Latitude N36°28'08.92882"	Longitude W89°11'08.21312"	Ellipsoid Height (US ft) 385.11	
Location Photo  NORTH				
 <p>3030_2020_TN, 3W, 20200114</p>		 <p>3030_2020_TN, 3N, 20200114</p>		



GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)





Station ID 3031_2020_TN	Northing (US ft) 703624.63	Easting (US ft) 961836.36	Elevation (US ft) 303.48
Point Type VVA	Latitude N36°13'05.12827"	Longitude W89°24'47.74982"	Ellipsoid Height (US ft) 210.41

<p>Location Photo</p>  <p>NORTH</p>		
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GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 3032_2020_TN	Northing (US ft) 657047.53	Easting (US ft) 936753.24	Elevation (US ft) 319.11	
Point Type VVA	Latitude N36°05'16.05575"	Longitude W89°29'33.38674"	Ellipsoid Height (US ft) 226.26	
Location Photo  NORTH				
 <p>3032_2020_TN, 3N, 20200109</p>		 <p>3032_2020_TN, 3E, 20200109</p>		







GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 3033_2020_TN	Northing (US ft) 665346.69	Easting (US ft) 912502.11	Elevation (US ft) 281.78	
Point Type VVA	Latitude N36°06'29.41671"	Longitude W89°34'32.35682"	Ellipsoid Height (US ft) 188.83	
Location Photo  NORTH				
 <p>3033_2020_TN, 3W, 20200109</p>		 <p>3033_2020_TN, 3N, 20200109</p>		







GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 3034_2020_TN	Northing (US ft) 767097.53	Easting (US ft) 1013664.29	Elevation (US ft) 386.51	
Point Type VVA	Latitude N36°23'49.86236"	Longitude W89°14'41.26997"	Ellipsoid Height (US ft) 293.79	
Location Photo  NORTH				
 <p>3034_2020_TN, 3W, 20200114</p>		 <p>3034_2020_TN, 3N, 20200114</p>		







GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 3035_2019_TN	Northing (US ft) 492918.78	Easting (US ft) 1057963.74	Elevation (US ft) 412.09	
Point Type VVA	Latitude N35°38'53.91999"	Longitude W89°03'54.66671"	Ellipsoid Height (US ft) 319.86	
Location Photo  NORTH				
 <p>3035_2019_TN, 3S, 20191214</p>		 <p>3035_2019_TN, 3E, 20191214</p>		







GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 3036_2019_TN	Northing (US ft) 500922.44	Easting (US ft) 1033542.83	Elevation (US ft) 322.46	
Point Type VVA	Latitude N35°40'05.37156"	Longitude W89°08'53.53815"	Ellipsoid Height (US ft) 230.43	
Location Photo  NORTH				
 <p>3036_2019_TN, 3SE, 20191213</p>		 <p>3036_2019_TN, 3NE, 20191213</p>		





GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 3037A_2019_TN	Northing (US ft) 526256.97	Easting (US ft) 926156.85	Elevation (US ft) 449.22	
Point Type VVA	Latitude N35°43'39.65276"	Longitude W89°30'45.22787"	Ellipsoid Height (US ft) 358.44	
Location Photo  NORTH				
 <p>3037A_2019_TN, 3NW, 20190301</p>		 <p>3037A_2019_TN, 3NE, 20190301</p>		



GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 3037B_2019_TN	Northing (US ft) 521593.32	Easting (US ft) 920410.31	Elevation (US ft) 350.72	
Point Type VVA	Latitude N35°42'51.51418"	Longitude W89°31'52.84129"	Ellipsoid Height (US ft) 260.08	
Location Photo  NORTH				



3037B_2019_TN, 3W, 20190301



3037B_2019_TN, 3N, 20190301



GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 3038_2019_TN	Northing (US ft) 506121.71	Easting (US ft) 905446.29	Elevation (US ft) 291.75	
Point Type VVA	Latitude N35°40'13.22445"	Longitude W89°34'47.32581"	Ellipsoid Height (US ft) 201.54	
Location Photo  NORTH				







3038_2019_TN, 3S, 20190228



3038_2019_TN, 3E, 20190228







GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 3039_2019_TN	Northing (US ft) 507456.18	Easting (US ft) 884806.52	Elevation (US ft) 278.23	
Point Type VVA	Latitude N35°40'18.87593"	Longitude W89°38'57.91359"	Ellipsoid Height (US ft) 188.16	
Location Photo  NORTH				
 <p>3039_2019_TN, 3S, 20190227</p>		 <p>3039_2019_TN, 3E, 20190227</p>		







GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 3040_2019_TN	Northing (US ft) 524546.00	Easting (US ft) 2082241.29	Elevation (US ft) 851.95	
Point Type VVA	Latitude N35°46'25.54270"	Longitude W85°36'59.63862"	Ellipsoid Height (US ft) 756.88	
Location Photo  NORTH				
 <p>3040_2019_TN, 3W, 20190203</p>		 <p>3040_2019_TN, 3S, 20190203</p>		







GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 3041_2019_TN	Northing (US ft) 535348.39	Easting (US ft) 2094757.36	Elevation (US ft) 863.76	
Point Type VVA	Latitude N35°48'11.86494"	Longitude W85°34'27.17531"	Ellipsoid Height (US ft) 768.71	
Location Photo  NORTH				
 <p>3041_2019_TN, 3W, 20190203</p>		 <p>3041_2019_TN, 3N, 20190203</p>		







GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 3042_2019_TN	Northing (US ft) 544038.06	Easting (US ft) 2131744.16	Elevation (US ft) 921.25	
Point Type VVA	Latitude N35°49'35.97898"	Longitude W85°26'57.55274"	Ellipsoid Height (US ft) 826.45	
Location Photo  NORTH				
 <p>3042_2019_TN, 3SE, 20190203</p>		 <p>3042_2019_TN, 3NE, 20190203</p>		







GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 3043_2019_TN	Northing (US ft) 357392.58	Easting (US ft) 2151816.81	Elevation (US ft) 725.33	
Point Type VVA	Latitude N35°18'48.87631"	Longitude W85°23'08.02564"	Ellipsoid Height (US ft) 629.81	
Location Photo  NORTH				
 <p>3043_2019_TN, 3N, 20190206</p>		 <p>3043_2019_TN, 3E, 20190206</p>		







GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 3043A_2019_TN	Northing (US ft) 357465.09	Easting (US ft) 2151786.44	Elevation (US ft) 725.80	
Point Type VVA	Latitude N35°18'49.59533"	Longitude W85°23'08.38659"	Ellipsoid Height (US ft) 630.28	
Location Photo  NORTH				
 <p>3043A_2019_TN, 3W, 20190206</p>		 <p>3043A_2019_TN, 3S, 20190206</p>		







GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 3044_2019_TN	Northing (US ft) 402304.30	Easting (US ft) 2162204.32	Elevation (US ft) 777.85	
Point Type VVA	Latitude N35°26'12.39364"	Longitude W85°20'59.08873"	Ellipsoid Height (US ft) 682.32	
Location Photo  NORTH				
 <p>3044_2019_TN, 3SE, 20190206</p>		 <p>3044_2019_TN, 3NE, 20190206</p>		







GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 3044A_2019_TN	Northing (US ft) 404088.95	Easting (US ft) 2162944.01	Elevation (US ft) 763.40	
Point Type VVA	Latitude N35°26'29.99530"	Longitude W85°20'50.00603"	Ellipsoid Height (US ft) 667.87	
Location Photo  NORTH				
 <p>3044A_2019_TN, 3SE, 20190206</p>		 <p>3044A_2019_TN, 3NE, 20190206</p>		







GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 3045_2019_TN	Northing (US ft) 380423.90	Easting (US ft) 2192614.85	Elevation (US ft) 1936.21	
Point Type VVA	Latitude N35°22'33.84127"	Longitude W85°14'53.62287"	Ellipsoid Height (US ft) 1840.27	
Location Photo  NORTH				
 <p>3045_2019_TN, 3W, 20190224</p>		 <p>3045_2019_TN, 3S, 20190224</p>		







GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 3046_2019_TN	Northing (US ft) 389869.82	Easting (US ft) 1161537.22	Elevation (US ft) 476.37	
Point Type VVA	Latitude N35°22'25.38821"	Longitude W88°42'25.62212"	Ellipsoid Height (US ft) 384.15	
Location Photo  NORTH				
 <p>3046_2019_TN, 3W, 20191218</p>		 <p>3046_2019_TN, 3S, 20191218</p>		


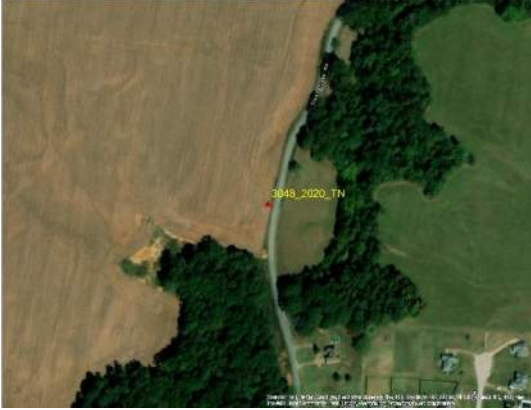




GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 3047_2019_TN	Northing (US ft) 394456.54	Easting (US ft) 1242405.33	Elevation (US ft) 520.01	
Point Type VVA	Latitude N35°23'31.75127"	Longitude W88°26'10.78921"	Ellipsoid Height (US ft) 428.73	
Location Photo  NORTH				
 <p>3047_2019_TN, 3W, 20191218</p>		 <p>3047_2019_TN, 3N, 20191218</p>		







GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 3048_2020_TN	Northing (US ft) 424127.12	Easting (US ft) 1212241.60	Elevation (US ft) 537.37	
Point Type VVA	Latitude N35°28'17.52286"	Longitude W88°32'24.28881"	Ellipsoid Height (US ft) 445.49	
Location Photo  NORTH				
 <p>3048_2020_TN_3N_20200131</p>		 <p>3048_2020_TN_3E_20200131</p>		







GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 3049_2019_TN	Northing (US ft) 400610.86	Easting (US ft) 1185720.20	Elevation (US ft) 407.68	
Point Type VVA	Latitude N35°24'18.09801"	Longitude W88°37'37.18978"	Ellipsoid Height (US ft) 315.58	
Location Photo  NORTH				
 <p>3049_2019_TN, 3N, 20191218</p>		 <p>3049_2019_TN, 3E, 20191218</p>		







GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 3050_2019_TN	Northing (US ft) 443574.66	Easting (US ft) 1084199.30	Elevation (US ft) 467.63	
Point Type VVA	Latitude N35°30'54.13149"	Longitude W88°58'18.76692"	Ellipsoid Height (US ft) 375.39	
Location Photo  NORTH				
 <p>3050_2019_TN, 3N, 20191211</p>		 <p>3050_2019_TN, 3E, 20191211</p>		



GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 3051_2019_TN	Northing (US ft) 484720.86	Easting (US ft) 853891.67	Elevation (US ft) 286.86	
Point Type VVA	Latitude N35°36'22.62497"	Longitude W89°45'01.78339"	Ellipsoid Height (US ft) 197.23	
Location Photo  NORTH				
 <p>3051_2019_TN, 3SW, 20190302</p>		 <p>3051_2019_TN, 3NW, 20190302</p>		






GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 3052_2019_TN	Northing (US ft) 412710.30	Easting (US ft) 836966.46	Elevation (US ft) 401.28	
Point Type VVA	Latitude N35°24'24.49918"	Longitude W89°47'52.76724"	Ellipsoid Height (US ft) 311.76	
Location Photo  NORTH				
 <p>3052_2019_TN, 3N, 20190225</p>		 <p>3052_2019_TN, 3E, 20190225</p>		







GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 3053_2019_TN	Northing (US ft) 429602.23	Easting (US ft) 955172.81	Elevation (US ft) 339.43	
Point Type VVA	Latitude N35°27'54.45618"	Longitude W89°24'12.74641"	Ellipsoid Height (US ft) 248.78	
Location Photo  NORTH				
 <p>3053_2019_TN, 3W, 20191219</p>		 <p>3053_2019_TN, 3N, 20191219</p>		







GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 3054_2019_TN	Northing (US ft) 419877.10	Easting (US ft) 1006137.46	Elevation (US ft) 358.44	
Point Type VVA	Latitude N35°26'35.41016"	Longitude W89°13'53.08085"	Ellipsoid Height (US ft) 267.11	
Location Photo  NORTH				
 <p>3054_2019_TN, 3N, 20191219</p>		 <p>3054_2019_TN, 3E, 20191219</p>		







GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 3055_2019_TN	Northing (US ft) 431741.14	Easting (US ft) 1159962.44	Elevation (US ft) 384.01	
Point Type VVA	Latitude N35°29'18.91685"	Longitude W88°42'58.66215"	Ellipsoid Height (US ft) 291.50	
Location Photo  NORTH				
 <p>3055_2019_TN, 3N, 20191210</p>		 <p>3055_2019_TN, 3E, 20191210</p>		







GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 3056_2019_TN	Northing (US ft) 466426.27	Easting (US ft) 1163342.38	Elevation (US ft) 377.96	
Point Type VVA	Latitude N35°35'02.75496"	Longitude W88°42'29.41025"	Ellipsoid Height (US ft) 285.37	
Location Photo  NORTH				
 <p>3056_2019_TN, 3W, 20191217</p>		 <p>3056_2019_TN, 3N, 20191217</p>		







GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 3057_2019_TN	Northing (US ft) 597928.26	Easting (US ft) 1126832.11	Elevation (US ft) 366.02	
Point Type VVA	Latitude N35°56'32.54029"	Longitude W88°50'37.51482"	Ellipsoid Height (US ft) 273.26	
Location Photo  NORTH				
 <p>3057_2019_TN, 3N, 20191215</p>		 <p>3057_2019_TN, 3E, 20191215</p>		







GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 3058_2020_TN	Northing (US ft) 651822.53	Easting (US ft) 1149856.97	Elevation (US ft) 356.90	
Point Type VVA	Latitude N36°05'31.83984"	Longitude W88°46'16.16316"	Ellipsoid Height (US ft) 264.11	
Location Photo  NORTH				
 <p>3058_2020_TN, 3W, 20200113</p>		 <p>3058_2020_TN, 3S, 20200113</p>		







GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 3059_2020_TN	Northing (US ft) 672798.00	Easting (US ft) 1182668.67	Elevation (US ft) 352.75	
Point Type VVA	Latitude N36°09'08.19776"	Longitude W88°39'43.46488"	Ellipsoid Height (US ft) 259.88	
Location Photo  NORTH				
 <p>3059_2020_TN, 3N, 20200113</p>		 <p>3059_2020_TN, 3E, 20200113</p>		





GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 3060_2020_TN	Northing (US ft) 694802.16	Easting (US ft) 1169209.74	Elevation (US ft) 361.09	
Point Type VVA	Latitude N36°12'42.06495"	Longitude W88°42'34.94577"	Ellipsoid Height (US ft) 268.35	
Location Photo  NORTH				
 <p>3060_2020_TN, 3N, 20200113</p>		 <p>3060_2020_TN, 3E, 20200113</p>		



GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 3061_2020_TN	Northing (US ft) 715296.44	Easting (US ft) 1193560.97	Elevation (US ft) 356.41	
Point Type VVA	Latitude N36°16'11.22361"	Longitude W88°37'44.61352"	Ellipsoid Height (US ft) 263.58	
Location Photo  NORTH				







3061_2020_TN, 3N, 20200113



3061_2020_TN, 3E, 20200113







GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 3062_2019_TN	Northing (US ft) 723336.00	Easting (US ft) 1224541.99	Elevation (US ft) 438.48	
Point Type VVA	Latitude N36°17'38.76358"	Longitude W88°31'28.93479"	Ellipsoid Height (US ft) 345.55	
Location Photo  NORTH				
 <p>3062_2019_TN, 3N, 20190303</p>		 <p>3062_2019_TN, 3E, 20190303</p>		




GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 3063_2020_TN	Northing (US ft) 783146.09	Easting (US ft) 1073667.39	Elevation (US ft) 367.29	
Point Type VVA	Latitude N36°26'47.53065"	Longitude W89°02'33.79461"	Ellipsoid Height (US ft) 274.93	
Location Photo  NORTH				
 <p>3063_2020_TN, 3W, 20200112</p>		 <p>3063_2020_TN, 3S, 20200112</p>		




GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 3064_2019_TN	Northing (US ft) 799010.06	Easting (US ft) 1117341.16	Elevation (US ft) 355.99	
Point Type VVA	Latitude N36°29'37.42516"	Longitude W88°53'45.24104"	Ellipsoid Height (US ft) 263.71	
Location Photo  NORTH				
 <p>3064_2019_TN, 3SE, 20190304</p>		 <p>3064_2019_TN, 3NE, 20190304</p>		







GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 3065_2020_TN	Northing (US ft) 724686.01	Easting (US ft) 1102385.63	Elevation (US ft) 358.00	
Point Type VVA	Latitude N36°17'18.39263"	Longitude W88°56'20.98023"	Ellipsoid Height (US ft) 265.30	
Location Photo  NORTH				
 <p>3065_2020_TN, 3N, 20200112</p>		 <p>3065_2020_TN, 3E, 20200112</p>		







GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 3066_2020_TN	Northing (US ft) 776744.61	Easting (US ft) 938286.08	Elevation (US ft) 281.11	
Point Type VVA	Latitude N36°24'59.51346"	Longitude W89°30'06.89537"	Ellipsoid Height (US ft) 187.87	
Location Photo  NORTH				
 <p>3066_2020_TN, 3W, 20200114</p>		 <p>3066_2020_TN, 3S, 20200114</p>		







GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 3067_2020_TN	Northing (US ft) 786669.80	Easting (US ft) 957012.49	Elevation (US ft) 301.01	
Point Type VVA	Latitude N36°26'44.16078"	Longitude W89°26'22.19428"	Ellipsoid Height (US ft) 207.92	
Location Photo  NORTH				
 <p>3067_2020_TN, 3W, 20200114</p>		 <p>3067_2020_TN, 3N, 20200114</p>		



GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 3068_2020_TN	Northing (US ft) 745216.66	Easting (US ft) 945723.22	Elevation (US ft) 286.05	
Point Type VVA	Latitude N36°19'50.56623"	Longitude W89°28'22.27775"	Ellipsoid Height (US ft) 192.95	
Location Photo  NORTH				
 <p>3068_2020_TN, 3S, 20200110</p>		 <p>3068_2020_TN, 3E, 20200110</p>		







GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 3069_2020_TN	Northing (US ft) 735812.66	Easting (US ft) 924801.48	Elevation (US ft) 287.78	
Point Type VVA	Latitude N36°18'10.21878"	Longitude W89°32'33.64160"	Ellipsoid Height (US ft) 194.57	
Location Photo  NORTH				
 <p>3069_2020_TN, 3SW, 20200110</p>		 <p>3069_2020_TN, 3SE, 20200110</p>		







GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 3070_2020_TN	Northing (US ft) 708303.87	Easting (US ft) 923623.17	Elevation (US ft) 278.32	
Point Type VVA	Latitude N36°13'37.94447"	Longitude W89°32'35.86273"	Ellipsoid Height (US ft) 185.22	
Location Photo  NORTH				
 <p>3070_2020_TN, 3W, 20200109</p>		 <p>3070_2020_TN, 3N, 20200109</p>		







GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 3071_2020_TN	Northing (US ft) 628525.85	Easting (US ft) 882646.30	Elevation (US ft) 273.14	
Point Type VVA	Latitude N36°00'14.59936"	Longitude W89°40'19.12232"	Ellipsoid Height (US ft) 180.54	
Location Photo  NORTH				
 <p>3071_2020_TN, 3N, 20200109</p>		 <p>3071_2020_TN, 3E, 20200109</p>		







GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 3072_2019_TN	Northing (US ft) 594728.68	Easting (US ft) 931391.61	Elevation (US ft) 266.32	
Point Type VVA	Latitude N35°54'58.24993"	Longitude W89°30'11.49754"	Ellipsoid Height (US ft) 174.20	
Location Photo  NORTH				
 <p>3072_2019_TN, 3W, 20190302</p>		 <p>3072_2019_TN, 3N, 20190302</p>		







GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 3073_2020_TN	Northing (US ft) 558977.10	Easting (US ft) 964053.25	Elevation (US ft) 297.73	
Point Type VVA	Latitude N35°49'16.26418"	Longitude W89°23'19.59921"	Ellipsoid Height (US ft) 206.01	
Location Photo  NORTH				
 <p>3073_2020_TN, 3S, 20200108</p>		 <p>3073_2020_TN, 3E, 20200108</p>		







GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 3074_2020_TN	Northing (US ft) 586071.73	Easting (US ft) 1006214.47	Elevation (US ft) 314.81	
Point Type VVA	Latitude N35°53'58.20996"	Longitude W89°14'58.83339"	Ellipsoid Height (US ft) 222.51	
Location Photo  NORTH				
 <p>3074_2020_TN, 3N, 20200108</p>		 <p>3074_2020_TN, 3E, 20200108</p>		







GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 3075_2020_TN	Northing (US ft) 590695.52	Easting (US ft) 1060279.22	Elevation (US ft) 335.09	
Point Type VVA	Latitude N35°55'01.16821"	Longitude W89°04'03.75446"	Ellipsoid Height (US ft) 242.54	
Location Photo  NORTH				
 <p>3075_2020_TN_3N_20200131</p>		 <p>3075_2020_TN_3E_20200131</p>		





GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 3076_2019_TN	Northing (US ft) 579928.31	Easting (US ft) 1100270.06	Elevation (US ft) 372.40	
Point Type VVA	Latitude N35°53'26.85358"	Longitude W88°55'53.85196"	Ellipsoid Height (US ft) 279.76	
Location Photo  NORTH				
 <p>3076_2019_TN, 3N, 20191215</p>		 <p>3076_2019_TN, 3E, 20191215</p>		



GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 3077_2019_TN	Northing (US ft) 525099.47	Easting (US ft) 1115258.81	Elevation (US ft) 364.43	
Point Type VVA	Latitude N35°44'29.23837"	Longitude W88°52'32.18365"	Ellipsoid Height (US ft) 271.74	
Location Photo  NORTH				







3077_2019_TN, 3W, 20191212



3077_2019_TN, 3N, 20191212







GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 3078_2019_TN	Northing (US ft) 419512.73	Easting (US ft) 1114043.92	Elevation (US ft) 468.99	
Point Type VVA	Latitude N35°27'05.06596"	Longitude W88°52'09.36815"	Ellipsoid Height (US ft) 376.61	
Location Photo  NORTH				
 <p>3078_2019_TN, 3W, 20191210</p>		 <p>3078_2019_TN, 3S, 20191210</p>		







GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 3079_2019_TN	Northing (US ft) 432073.02	Easting (US ft) 1063418.42	Elevation (US ft) 340.91	
Point Type VVA	Latitude N35°28'54.11901"	Longitude W89°02'25.70398"	Ellipsoid Height (US ft) 248.86	
Location Photo  NORTH				
 <p>3079_2019_TN, 3W, 20191211</p>		 <p>3079_2019_TN, 3N, 20191211</p>		





GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 3080_2019_TN	Northing (US ft) 477947.36	Easting (US ft) 1099003.74	Elevation (US ft) 405.72	
Point Type VVA	Latitude N35°36'38.34093"	Longitude W88°55'32.18967"	Ellipsoid Height (US ft) 313.15	
Location Photo  NORTH				
 <p>3080_2019_TN, 3N, 20191211</p>		 <p>3080_2019_TN, 3E, 20191211</p>		



GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 3081_2020_TN	Northing (US ft) 438303.89	Easting (US ft) 900133.69	Elevation (US ft) 361.73	
Point Type VVA	Latitude N35°29'01.01963"	Longitude W89°35'21.53344"	Ellipsoid Height (US ft) 271.95	
Location Photo  NORTH				







3081_2020_TN_3N_20200201



3081_2020_TN_3E_20200201







GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 3082_2019_TN	Northing (US ft) 442248.14	Easting (US ft) 859873.76	Elevation (US ft) 301.85	
Point Type VVA	Latitude N35°29'25.12624"	Longitude W89°43'29.81710"	Ellipsoid Height (US ft) 212.45	
Location Photo  NORTH				
 <p>3082_2019_TN, 3SW, 20190302</p>		 <p>3082_2019_TN, 3NW, 20190302</p>		







GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 3083_2019_TN	Northing (US ft) 436827.18	Easting (US ft) 770599.04	Elevation (US ft) 236.85	
Point Type VVA	Latitude N35°27'56.60847"	Longitude W90°01'25.80804"	Ellipsoid Height (US ft) 146.62	
Location Photo  NORTH				
 <p>3083_2019_TN, 3N, 20190226</p>		 <p>3083_2019_TN, 3E, 20190226</p>		







GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 3084_2019_TN	Northing (US ft) 432648.35	Easting (US ft) 738927.42	Elevation (US ft) 223.14	
Point Type VVA	Latitude N35°27'02.27032"	Longitude W90°07'46.22260"	Ellipsoid Height (US ft) 132.67	
Location Photo  NORTH				
 <p>3084_2019_TN, 3S, 20190226</p>		 <p>3084_2019_TN, 3E, 20190226</p>		







GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 3085_2019_TN	Northing (US ft) 405320.56	Easting (US ft) 725453.20	Elevation (US ft) 232.04	
Point Type VVA	Latitude N35°22'26.58408"	Longitude W90°10'14.86479"	Ellipsoid Height (US ft) 141.88	
Location Photo  NORTH				
 <p>3085_2019_TN, 3NW, 20190226</p>		 <p>3085_2019_TN, 3NE, 20190226</p>		







GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 3086_2020_TN	Northing (US ft) 635061.85	Easting (US ft) 1019892.37	Elevation (US ft) 288.88	
Point Type VVA	Latitude N36°02'06.90225"	Longitude W89°12'32.18789"	Ellipsoid Height (US ft) 196.21	
Location Photo  NORTH				
 <p>3086_2020_TN, 3N, 20200108</p>		 <p>3086_2020_TN, 3E, 20200108</p>		







GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 3087_2020_TN	Northing (US ft) 655747.34	Easting (US ft) 1043697.01	Elevation (US ft) 353.88	
Point Type VVA	Latitude N36°05'38.98548"	Longitude W89°07'50.54960"	Ellipsoid Height (US ft) 261.14	
Location Photo  NORTH				
 <p>3087_2020_TN, 3S, 20200108</p>		 <p>3087_2020_TN, 3E, 20200108</p>		




GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 3088_2020_TN	Northing (US ft) 681558.05	Easting (US ft) 1030826.30	Elevation (US ft) 298.70	
Point Type VVA	Latitude N36°09'50.00024"	Longitude W89°10'37.50301"	Ellipsoid Height (US ft) 205.80	
Location Photo  NORTH				
 <p>3088_2020_TN, 3W, 20200108</p>		 <p>3088_2020_TN, 3N, 20200108</p>		







GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 3089_2020_TN	Northing (US ft) 699373.26	Easting (US ft) 1044059.22	Elevation (US ft) 292.83	
Point Type VVA	Latitude N36°12'50.30365"	Longitude W89°08'03.15918"	Ellipsoid Height (US ft) 199.93	
Location Photo  NORTH				







GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 3090_2020_TN	Northing (US ft) 697894.57	Easting (US ft) 1011554.34	Elevation (US ft) 286.09	
Point Type VVA	Latitude N36°12'25.21569"	Longitude W89°14'39.01016"	Ellipsoid Height (US ft) 193.06	
Location Photo  NORTH				
 <p>3090_2020_TN, 3S, 20200110</p>		 <p>3090_2020_TN, 3E, 20200110</p>		







GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 3091_2020_TN	Northing (US ft) 667987.68	Easting (US ft) 1086424.70	Elevation (US ft) 327.72	
Point Type VVA	Latitude N36°07'53.17995"	Longitude W88°59'14.71147"	Ellipsoid Height (US ft) 234.98	
Location Photo  NORTH				
 <p>3091_2020_TN, 3W, 20200112</p>	 <p>3091_2020_TN, 3N, 20200112</p>			






GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 3092_2020_TN	Northing (US ft) 695787.65	Easting (US ft) 1061120.97	Elevation (US ft) 349.52	
Point Type VVA	Latitude N36°12'20.21560"	Longitude W89°04'33.67717"	Ellipsoid Height (US ft) 256.71	
Location Photo  NORTH				
 <p>3092_2020_TN, 3N, 20200112</p>		 <p>3092_2020_TN, 3E, 20200112</p>		






GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 3093_2020_TN	Northing (US ft) 687339.15	Easting (US ft) 1094305.39	Elevation (US ft) 369.29	
Point Type VVA	Latitude N36°11'06.83022"	Longitude W88°57'45.82542"	Ellipsoid Height (US ft) 276.56	
Location Photo  NORTH				
 <p>3093_2020_TN, 3N, 20200112</p>		 <p>3093_2020_TN, 3E, 20200112</p>		







GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 3094_2020_TN	Northing (US ft) 683990.13	Easting (US ft) 1127533.66	Elevation (US ft) 365.23	
Point Type VVA	Latitude N36°10'43.48263"	Longitude W88°50'59.45996"	Ellipsoid Height (US ft) 272.56	
Location Photo  NORTH				
 <p>3094_2020_TN, 3N, 20200112</p>		 <p>3094_2020_TN, 3E, 20200112</p>		







GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 3095_2019_TN	Northing (US ft) 640217.16	Easting (US ft) 1100468.25	Elevation (US ft) 400.37	
Point Type VVA	Latitude N36°03'22.87694"	Longitude W88°56'13.43088"	Ellipsoid Height (US ft) 307.64	
Location Photo  NORTH				
 <p>3095_2019_TN, 3W, 20191215</p>		 <p>3095_2019_TN, 3S, 20191215</p>		







GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 3096_2019_TN	Northing (US ft) 514504.12	Easting (US ft) 969249.21	Elevation (US ft) 345.99	
Point Type VVA	Latitude N35°41'58.46260"	Longitude W89°21'57.97034"	Ellipsoid Height (US ft) 254.72	
Location Photo  NORTH				
 <p>3096_2019_TN, 3W, 20191214</p>		 <p>3096_2019_TN, 3N, 20191214</p>		







GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 3097_2019_TN	Northing (US ft) 515316.72	Easting (US ft) 1000562.31	Elevation (US ft) 310.50	
Point Type VVA	Latitude N35°42'16.97748"	Longitude W89°15'38.84833"	Ellipsoid Height (US ft) 218.78	
Location Photo  NORTH				
 <p>3097_2019_TN, 3S, 20191214</p>		 <p>3097_2019_TN, 3E, 20191214</p>		







GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 3098_2019_TN	Northing (US ft) 561718.18	Easting (US ft) 1024675.39	Elevation (US ft) 344.12	
Point Type VVA	Latitude N35°50'03.48887"	Longitude W89°11'04.92676"	Ellipsoid Height (US ft) 251.88	
Location Photo  NORTH				
 <p>3098_2019_TN, 3W, 20191216</p>		 <p>3098_2019_TN, 3N, 20191216</p>		







GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 3099_2020_TN	Northing (US ft) 746986.98	Easting (US ft) 1041088.27	Elevation (US ft) 344.59	
Point Type VVA	Latitude N36°20'39.96177"	Longitude W89°08'58.09102"	Ellipsoid Height (US ft) 251.84	
Location Photo  NORTH				
 <p>3099_2020_TN, 3W, 20200112</p>		 <p>3099_2020_TN, 3S, 20200112</p>		







GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 3100_2019_TN	Northing (US ft) 492070.18	Easting (US ft) 976418.88	Elevation (US ft) 329.12	
Point Type VVA	Latitude N35°38'19.14773"	Longitude W89°20'21.81179"	Ellipsoid Height (US ft) 237.89	
Location Photo  NORTH				
 <p>3100_2019_TN, 3N, 20191219</p>		 <p>3100_2019_TN, 3E, 20191219</p>		







GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 3101_2019_TN	Northing (US ft) 526697.11	Easting (US ft) 1066583.91	Elevation (US ft) 366.65	
Point Type VVA	Latitude N35°44'30.48593"	Longitude W89°02'22.97763"	Ellipsoid Height (US ft) 274.23	
Location Photo  NORTH				
 <p>3101_2019_TN, 3W, 20191213</p>		 <p>3101_2019_TN, 3N, 20191213</p>		







GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 3102_2019_TN	Northing (US ft) 516864.22	Easting (US ft) 1034128.61	Elevation (US ft) 343.74	
Point Type VVA	Latitude N35°42'43.14161"	Longitude W89°08'52.65580"	Ellipsoid Height (US ft) 251.62	
Location Photo  NORTH				
 <p>3102_2019_TN, 3N, 20191213</p>		 <p>3102_2019_TN, 3E, 20191213</p>		







GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 3103_2019_TN	Northing (US ft) 520920.42	Easting (US ft) 940112.12	Elevation (US ft) 382.63	
Point Type VVA	Latitude N35°42'51.82660"	Longitude W89°27'53.78021"	Ellipsoid Height (US ft) 291.74	
Location Photo  NORTH				
 <p>3103_2019_TN, 3N, 20191219</p>		 <p>3103_2019_TN, 3E, 20191219</p>		







GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 3104_2019_TN	Northing (US ft) 742252.67	Easting (US ft) 1127219.46	Elevation (US ft) 375.74	
Point Type VVA	Latitude N36°20'19.29882"	Longitude W88°51'24.03207"	Ellipsoid Height (US ft) 283.11	
Location Photo  NORTH				
 <p>3104_2019_TN, 3W, 20190303</p>		 <p>3104_2019_TN, 3N, 20190303</p>		



GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 3105_2020_TN	Northing (US ft) 615495.58	Easting (US ft) 966192.06	Elevation (US ft) 331.95	
Point Type VVA	Latitude N35°58'35.61486"	Longitude W89°23'17.39811"	Ellipsoid Height (US ft) 239.46	
Location Photo  NORTH				
 <p>3105_2020_TN, 3N, 20200108</p>		 <p>3105_2020_TN, 3E, 20200108</p>		



GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)

Station ID 1	Northing (US ft) 482907.09	Easting (US ft) 1082073.42	Elevation (US ft) 450.50
Point Type FE0594	Latitude N35°37'22.31723"	Longitude W88°58'58.97118"	Ellipsoid Height (US ft) 358.07



1, FE0594, 1, 20191211




1, FE0594, 3N, 20191211



1, FE0594, 3S, 20191211



GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 101_2019_TN	Northing (US ft) 488048.24	Easting (US ft) 2124509.36	Elevation (US ft) 1836.58	
Point Type TSM	Latitude N35°40'22.64203"	Longitude W85°28'29.06018"	Ellipsoid Height (US ft) 1742.71	
 <p>101_2019_TN, 1, 20190202</p>				




101_2019_TN, 3E, 20190202



101_2019_TN, 3N, 20190202



GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 102_2019_TN	Northing (US ft) 387297.84	Easting (US ft) 2154880.99	Elevation (US ft) 773.17	
Point Type TSM	Latitude N35°23'44.45065"	Longitude W85°22'28.74730"	Ellipsoid Height (US ft) 677.69	
 <p>102_2019_TN, 1, 20190205</p>				






102_2019_TN, 3E, 20190205



102_2019_TN, 3N, 20190205






GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 103_2019_TN	Northing (US ft) 429263.08	Easting (US ft) 788529.79	Elevation (US ft) 245.52	
Point Type TSM	Latitude N35°26'49.09356"	Longitude W89°57'45.51475"	Ellipsoid Height (US ft) 155.57	
 <p>103_2019_TN, 1, 20190225</p>				
 <p>103_2019_TN, 3NE, 20190225</p>		 <p>103_2019_TN, 3NW, 20190225</p>		






GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 104_2019_TN	Northing (US ft) 531065.96	Easting (US ft) 879853.62	Elevation (US ft) 331.95	
Point Type TSM	Latitude N35°44'10.38356"	Longitude W89°40'08.62854"	Ellipsoid Height (US ft) 241.36	
 <p>104_2019_TN, 1, 20190228</p>				
 <p>104_2019_TN, 3E, 20190228</p>		 <p>104_2019_TN, 3N, 20190228</p>		




GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 105_2019_TN	Northing (US ft) 760066.03	Easting (US ft) 1167837.58	Elevation (US ft) 416.98	
Point Type TSM	Latitude N36°23'26.81884"	Longitude W88°43'13.81926"	Ellipsoid Height (US ft) 324.22	
 <p>105_2019_TN, 1, 20190304</p>				
 <p>105_2019_TN, 3E, 20190304</p>		 <p>105_2019_TN, 3N, 20190304</p>		



GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 110_2019_TN	Northing (US ft) 403578.34	Easting (US ft) 1203980.54	Elevation (US ft) 495.56	
Point Type TSM	Latitude N35°24'52.22776"	Longitude W88°33'57.61868"	Ellipsoid Height (US ft) 403.71	
				

110_2019_TN, 1, 20191217




110_2019_TN, 3E, 20191217



110_2019_TN, 3N, 20191217



GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 120_2020_TN	Northing (US ft) 703656.50	Easting (US ft) 1135668.80	Elevation (US ft) 415.25	
Point Type TSM	Latitude N36°14'00.21422"	Longitude W88°49'27.19142"	Ellipsoid Height (US ft) 322.61	
 <p>120_2020_TN, 1, 20200113</p>				




120_2020_TN, 3E, 20200113



120_2020_TN, 3N, 20200113






GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID 130_2020_TN	Northing (US ft) 742333.37	Easting (US ft) 999154.28	Elevation (US ft) 473.04	
Point Type TSM	Latitude N36°19'40.32649"	Longitude W89°17'28.46512"	Ellipsoid Height (US ft) 380.14	
 <p>130_2020_TN, 1, 20200114</p>				
 <p>130_2020_TN, 3E, 20200114</p>		 <p>130_2020_TN, 3N, 20200114</p>		






GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID D 95	Northing (US ft) 627128.39	Easting (US ft) 877534.27	Elevation (US ft) 262.44	
Point Type FE1523	Latitude N35°59'58.88808"	Longitude W89°41'20.65615"	Ellipsoid Height (US ft) 169.95	
 <p>D 95, FE1523, 1, 20200109</p>				
 <p>D 95, FE1523, 3E, 20200109</p>		 <p>D 95, FE1523, 3N, 20200109</p>		






GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID GPS 17	Northing (US ft) 725372.65	Easting (US ft) 1024241.96	Elevation (US ft) 310.62	
Point Type GD1865	Latitude N36°17'00.92974"	Longitude W89°12'15.25151"	Ellipsoid Height (US ft) 217.65	
 <p>GPS 17, GD1865, 1, 20200110</p>				
 <p>GPS 17, GD1865, 3E, 20200110</p>		 <p>GPS 17, GD1865, 3N, 20200110</p>		






GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID GPS 32	Northing (US ft) 594015.95	Easting (US ft) 1081068.27	Elevation (US ft) 320.18	
Point Type FE2744	Latitude N35°55'40.36069"	Longitude W88°59'52.36070"	Ellipsoid Height (US ft) 227.46	
 <p>GPS 32, FE2744, 1, 20191215</p>				
 <p>GPS 32, FE2744, 3NE, 20191215</p>		 <p>GPS 32, FE2744, 3NW, 20191215</p>		




GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID GPS 37	Northing (US ft) 455611.99	Easting (US ft) 2201084.51	Elevation (US ft) 826.44	
Point Type FC1927	Latitude N35°34'56.79117"	Longitude W85°13'04.09220"	Ellipsoid Height (US ft) 730.62	
 <p>GPS 37, FC1927, 1, 20190202</p>				
 <p>GPS 37, FC1927, 3NE, 20190202</p>			 <p>GPS 37, FC1927, 3NW, 20190202</p>	






GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID GPS 38	Northing (US ft) 463432.42	Easting (US ft) 2056100.15	Elevation (US ft) 890.81	
Point Type FC1928	Latitude N35°36'22.02468"	Longitude W85°42'19.11778"	Ellipsoid Height (US ft) 796.15	
 <p>GPS 38, FC1928, 1, 20190202</p>				
 <p>GPS 38, FC1928, 3E, 20190202</p>		 <p>GPS 38, FC1928, 3N, 20190202</p>		






GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID GPS 46	Northing (US ft) 455377.98	Easting (US ft) 1004935.58	Elevation (US ft) 381.66	
Point Type FE2748	Latitude N35°32'25.93791"	Longitude W89°14'21.79770"	Ellipsoid Height (US ft) 290.17	
				
GPS 46, FE2748, 1, 20191214				
				
GPS 46, FE2748, 3E, 20191214		GPS 46, FE2748, 3N, 20191214		






GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID GPS 50	Northing (US ft) 312200.30	Easting (US ft) 2122403.04	Elevation (US ft) 683.36	
Point Type FC1931	Latitude N35°11'23.59678"	Longitude W85°29'05.80655"	Ellipsoid Height (US ft) 588.02	
 <p>GPS 50, FC1931, 1, 20190206</p>				
 <p>GPS 50, FC1931, 3E, 20190206</p>			 <p>GPS 50, FC1931, 3N, 20190206</p>	






GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID M53 A	Northing (US ft) 547163.25	Easting (US ft) 1116215.37	Elevation (US ft) 414.53	
Point Type AI9846	Latitude N35°48'07.63198"	Longitude W88°52'28.44502"	Ellipsoid Height (US ft) 321.84	
 <p>M53 A, AI9846, 1, 20191212</p>				
 <p>M53 A, AI9846, 3E, 20191212</p>		 <p>M53 A, AI9846, 3N, 20191212</p>		






GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID M53 B	Northing (US ft) 548331.80	Easting (US ft) 1117471.01	Elevation (US ft) 418.75	
Point Type AI9819	Latitude N35°48'19.54829"	Longitude W88°52'13.62384"	Ellipsoid Height (US ft) 326.06	
 <p>M53 B, AI9819, 1, 20191212</p>				
 <p>M53 B, AI9819, 3E, 20191212</p>		 <p>M53 B, AI9819, 3N, 20191212</p>		




GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID M53 C	Northing (US ft) 545940.07	Easting (US ft) 1115097.94	Elevation (US ft) 406.33	
Point Type AI9838	Latitude N35°47'55.21535"	Longitude W88°52'41.56836"	Ellipsoid Height (US ft) 313.64	
 <p>M53 C, AI9838, 1, 20191212</p>				
 <p>M53 C, AI9838, 3E, 20191212</p>		 <p>M53 C, AI9838, 3N, 20191212</p>		



GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID PINSON 1	Northing (US ft) 435387.82	Easting (US ft) 1166011.90	Elevation (US ft) 428.00	
Point Type DG7715	Latitude N35°29'56.62390"	Longitude W88°41'46.75033"	Ellipsoid Height (US ft) 335.47	
 <p>PINSON 1, DG7715, 1, 20191210</p>				
 <p>PINSON 1, DG7715, 3E, 20191210</p>		 <p>PINSON 1, DG7715, 3N, 20191210</p>		



GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)

Station ID PINSON 2	Northing (US ft) 435523.33	Easting (US ft) 1164788.11	Elevation (US ft) 430.96
Point Type DG7716	Latitude N35°29'57.62993"	Longitude W88°42'01.59073"	Ellipsoid Height (US ft) 338.48



PINSON 2, DG7716, 1, 20191210



PINSON 2, DG7716, 3E, 20191210



PINSON 2, DG7716, 3N, 20191210



GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)

Station ID Q 160	Northing (US ft) 574810.23	Easting (US ft) 1151253.44	Elevation (US ft) 457.18
Point Type FE0695	Latitude N35°52'50.91540"	Longitude W88°45'32.70378"	Ellipsoid Height (US ft) 364.57



Q 160, FE0695, 1, 20191215






Q 160, FE0695, 3E, 20191215



Q 160, FE0695, 3N, 20191215






GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID R 264	Northing (US ft) 624363.82	Easting (US ft) 963978.69	Elevation (US ft) 277.09	
Point Type GD1118	Latitude N36°00'02.50661"	Longitude W89°23'48.05571"	Ellipsoid Height (US ft) 184.45	
 <p>R 264, GD1118, 1, 20200107</p>				
 <p>R 264, GD1118, 3E, 20200107</p>			 <p>R 264, GD1118, 3N, 20200107</p>	






GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID REGION 4	Northing (US ft) 488321.01	Easting (US ft) 1101022.86	Elevation (US ft) 355.71	
Point Type DG7702	Latitude N35°38'21.48829"	Longitude W88°55'11.49441"	Ellipsoid Height (US ft) 263.09	
 <p>REGION 4, DG7702, 1, 20191211</p>				
 <p>REGION 4, DG7702, 3E, 20191211</p>			 <p>REGION 4, DG7702, 3N, 20191211</p>	



GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID S 8 5	Northing (US ft) 660586.49	Easting (US ft) 958153.89	Elevation (US ft) 416.77	
Point Type GD1105	Latitude N36°05'58.50515"	Longitude W89°25'14.30892"	Ellipsoid Height (US ft) 323.82	
 <p>S 8 5, GD1105, 1, 20200107</p>				
 <p>S 8 5, GD1105, 3E, 20200107</p>		 <p>S 8 5, GD1105, 3N, 20200107</p>		



GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)

Station ID TT N 157	Northing (US ft) 383374.51	Easting (US ft) 1194151.26	Elevation (US ft) 431.01
Point Type FE0511	Latitude N35°21'29.91138"	Longitude W88°35'49.85269"	Ellipsoid Height (US ft) 339.08



TT N 157, FE0511, 1, 20191218






TT N 157, FE0511, 3E, 20191218



TT N 157, FE0511, 3N, 20191218



GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID U 13	Northing (US ft) 772926.11	Easting (US ft) 1060280.55	Elevation (US ft) 340.45	
Point Type GD0784	Latitude N36°25'02.37684"	Longitude W89°05'13.61231"	Ellipsoid Height (US ft) 248.55	
				
U 13, GD0784, 1, 20200112				
				
U 13, GD0784, 3E, 20200112		U 13, GD0784, 3N, 20200112		



GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)

Station ID U 14X	Northing (US ft) 645390.82	Easting (US ft) 1083644.32	Elevation (US ft) 355.99
Point Type DG5302	Latitude N36°04'08.97667"	Longitude W88°59'40.16284"	Ellipsoid Height (US ft) 263.27



U 14X, DG5302, 1, 20191216




U 14X, DG5302, 3E, 20191216



U 14X, DG5302, 3N, 20191216



GCP OBSERVATION LOG

Project Number 79576	Project Name West Tennessee LiDAR		Company Woolpert	Field Operator JH
Coordinate System United States/State Plane 1983	Hor. Datum NAD 1983 (Conus)	Ver. Datum NAVD88	Zone Tennessee 4100	Geoid GEOID12B (Conus)
Station ID X 173	Northing (US ft) 758467.16	Easting (US ft) 1129726.62	Elevation (US ft) 364.21	
Point Type GD0312	Latitude N36°23'00.29158"	Longitude W88°50'59.17118"	Ellipsoid Height (US ft) 271.54	
 <p>X 173, GD0312, 1, 20190303</p>				



X 173, GD0312, 3E, 20190303



X 173, GD0312, 3N, 20190303

Section 4: Geodetic Control Information and Resources

This section contains the solutions returned from Online Positioning User Service (OPUS) and National Geodetic Survey monument datasheets for the control stations that were used to establish 3-dimensional coordinates for each of the newly established ground control survey points for the project.

FILE: 101_77740330.19o OP1554377246292

NGS OPUS SOLUTION REPORT

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All computed coordinate accuracies are listed as peak-to-peak values.

For additional information:

<https://nam05.safelinks.protection.outlook.com/?url=https%3A%2F%2Fwww.ngs.noaa.gov%2FOPUS%2Fabout.jsp%23accuracy&data=02%7C01%7Cmichael.zarlengo%40woolpert.com%7Cdc8341cf81414804889708d6b8f0de60%7C49c1e384218e47a1a464d59d76daf482%7C0%7C0%7C636899741995814454&sdata=GKEhFEEDSXLC7H6zxpkhM4vPyfXVv4ochoamZ2YV%3D&reserved=0>

USER: michael.zarlengo@woolpert.com DATE: April 04, 2019

RINEX FILE: 101_033t.19o TIME: 11:29:05 UTC

SOFTWARE: page5 1603.24 master70.pl 160321 START: 2019/02/02 19:19:00
 EPHEMERIS: igs20386.eph [precise] STOP: 2019/02/03 00:16:00
 NAV FILE: brdc0330.19n OBS USED: 10895 / 11388 : 96%
 ANT NAME: TRMR8_GNSS3 NONE # FIXED AMB: 66 / 66 : 100%
 ARP HEIGHT: 2.000 OVERALL RMS: 0.016(m)

REF FRAME: NAD_83(2011)(EPOCH:2010.0000) IGS08 (EPOCH:2019.0901)

X: 409300.435(m) 0.004(m) 409299.573(m) 0.004(m)
 Y: -5171503.794(m) 0.022(m) -5171502.345(m) 0.022(m)
 Z: 3699083.538(m) 0.025(m) 3699083.416(m) 0.025(m)

LAT: 35 40 22.64203 0.017(m) 35 40 22.66745 0.017(m)
 E LON: 274 31 30.93982 0.002(m) 274 31 30.91019 0.002(m)
 W LON: 85 28 29.06018 0.002(m) 85 28 29.08981 0.002(m)
 EL HGT: 531.172(m) 0.027(m) 529.872(m) 0.027(m)
 ORTHO HGT: 559.784(m) 0.041(m) [NAVD88 (Computed using GEOID12B)]

UTM COORDINATES STATE PLANE COORDINATES

UTM (Zone 16) SPC (4100 TN)

Northing (Y) [meters]	3948747.111	148757.401
Easting (X) [meters]	638038.757	647551.747
Convergence [degrees]	0.88960833	0.30750833
Point Scale	0.99983481	0.99995233
Combined Factor	0.99975146	0.99986897

US NATIONAL GRID DESIGNATOR: 16SFE3803848747(NAD 83)

BASE STATIONS USED

PID	DESIGNATION	LATITUDE	LONGITUDE	DISTANCE(m)
DL6175	TN28 TDOT DISTRICT 28 CORS ARP	N354205.606	W0854443.511	24709.1
DJ9546	TN23 TDOT DISTRICT 23 CORS ARP	N355510.684	W0845957.565	50954.9
DJ9548	TN24 TDOT DISTRICT 24 CORS ARP	N360803.697	W0852957.817	51248.2

NEAREST NGS PUBLISHED CONTROL POINT

FC1022 J 43 N354400.000 W0852613.000 7521.7

This position and the above vector components were computed without any knowledge by the National Geodetic Survey regarding the equipment or field operating procedures used.

FILE: 101_77740340.19o OP1554377275110

NGS OPUS SOLUTION REPORT

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All computed coordinate accuracies are listed as peak-to-peak values.

For additional information:

<https://nam05.safelinks.protection.outlook.com/?url=https%3A%2F%2Fwww.ngs.noaa.gov%2FOPUS%2Fabout.jsp%23accuracy&data=02%7C01%7Cmichael.zarlengo%40woolpert.com%7Ce578fa39287a45f36aea08d6b8f0e9d2%7C49c1e384218e47a1a464d59d76daf482%7C0%7C0%7C636899742187486222&sdata=kbvO4K%2BB9%2BV76fVF5lb6Vxi42a4v8SK3gH3hN3umggo%3D&reserved=0>

USER: michael.zarlengo@woolpert.com DATE: April 04, 2019

RINEX FILE: 101_034p.19o

TIME: 11:29:24 UTC

SOFTWARE: page5 1603.24 master74.pl 160321 START: 2019/02/03 15:00:00
 EPHEMERIS: igs20390.eph [precise] STOP: 2019/02/03 23:19:00
 NAV FILE: brdc0340.19n OBS USED: 19793 / 20689 : 96%
 ANT NAME: TRMR8_GNSS3 NONE # FIXED AMB: 93 / 100 : 93%
 ARP HEIGHT: 2.000 OVERALL RMS: 0.017(m)

REF FRAME: NAD_83(2011)(EPOCH:2010.0000) IGS08 (EPOCH:2019.0926)

X: 409300.438(m) 0.009(m) 409299.576(m) 0.009(m)
 Y: -5171503.806(m) 0.023(m) -5171502.357(m) 0.023(m)
 Z: 3699083.546(m) 0.010(m) 3699083.424(m) 0.010(m)

LAT: 35 40 22.64203 0.012(m) 35 40 22.66741 0.012(m)
 E LON: 274 31 30.93989 0.008(m) 274 31 30.91026 0.008(m)
 W LON: 85 28 29.06011 0.008(m) 85 28 29.08974 0.008(m)
 EL HGT: 531.186(m) 0.021(m) 529.886(m) 0.021(m)
 ORTHO HGT: 559.798(m) 0.037(m) [NAVD88 (Computed using GEOID12B)]

UTM COORDINATES STATE PLANE COORDINATES

UTM (Zone 16) SPC (4100 TN)

Northing (Y) [meters] 3948747.111 148757.401
 Easting (X) [meters] 638038.758 647551.748
 Convergence [degrees] 0.88960833 0.30750833
 Point Scale 0.99983481 0.99995233
 Combined Factor 0.99975146 0.99986897

US NATIONAL GRID DESIGNATOR: 16SFE3803848747(NAD 83)

BASE STATIONS USED

PID	DESIGNATION	LATITUDE	LONGITUDE	DISTANCE(m)
DL6175	TN28 TDOT DISTRICT 28 CORS ARP	N354205.606	W0854443.511	24709.1
DJ9546	TN23 TDOT DISTRICT 23 CORS ARP	N355510.684	W0845957.565	50954.9
DJ9548	TN24 TDOT DISTRICT 24 CORS ARP	N360803.697	W0852957.817	51248.2

NEAREST NGS PUBLISHED CONTROL POINT

FC1022 J 43 N354400.000 W0852613.000 7521.7

This position and the above vector components were computed without any knowledge by the National Geodetic Survey regarding the equipment or field operating procedures used.

FILE: 101_77740350.19o OP1554377299039

NGS OPUS SOLUTION REPORT

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All computed coordinate accuracies are listed as peak-to-peak values.

For additional information:

<https://nam05.safelinks.protection.outlook.com/?url=https%3A%2F%2Fwww.ngs.noaa.gov%2FOPUS%2Fabout.jsp%23accuracy&data=02%7C01%7Cmichael.zarlengo%40woolpert.com%7C6f9ac71a7e234448c4ce08d6b8f0e9ec%7C49c1e384218e47a1a464d59d76daf482%7C0%7C0%7C636899742191701082&data=KlwNSOV4NNPCzAFMcjGHUYCqz6z%2BIIkanp1xEfJzgnzo%3D&reserved=0>

USER: michael.zarlengo@woolpert.com DATE: April 04, 2019

RINEX FILE: 101_035q.19o

TIME: 11:29:24 UTC

SOFTWARE: page5 1603.24 master73.pl 160321 START: 2019/02/04 16:14:00
 EPHEMERIS: igs20391.eph [precise] STOP: 2019/02/04 23:41:00
 NAV FILE: brdc0350.19n OBS USED: 18055 / 18881 : 96%
 ANT NAME: TRMR8_GNSS3 NONE # FIXED AMB: 97 / 102 : 95%
 ARP HEIGHT: 2.000 OVERALL RMS: 0.016(m)

REF FRAME: NAD_83(2011)(EPOCH:2010.0000) IGS08 (EPOCH:2019.0954)

X: 409300.434(m) 0.006(m) 409299.572(m) 0.006(m)
 Y: -5171503.799(m) 0.016(m) -5171502.350(m) 0.016(m)
 Z: 3699083.541(m) 0.011(m) 3699083.419(m) 0.011(m)

LAT: 35 40 22.64203 0.010(m) 35 40 22.66745 0.010(m)
 E LON: 274 31 30.93974 0.005(m) 274 31 30.91012 0.005(m)
 W LON: 85 28 29.06026 0.005(m) 85 28 29.08988 0.005(m)
 EL HGT: 531.177(m) 0.017(m) 529.877(m) 0.017(m)
 ORTHO HGT: 559.789(m) 0.035(m) [NAVD88 (Computed using GEOID12B)]

UTM COORDINATES STATE PLANE COORDINATES

UTM (Zone 16) SPC (4100 TN)

Northing (Y) [meters] 3948747.111 148757.401
 Easting (X) [meters] 638038.755 647551.745
 Convergence [degrees] 0.88960833 0.30750833
 Point Scale 0.99983481 0.99995233
 Combined Factor 0.99975146 0.99986897

US NATIONAL GRID DESIGNATOR: 16SFE3803848747(NAD 83)

BASE STATIONS USED

PID	DESIGNATION	LATITUDE	LONGITUDE	DISTANCE(m)
DL6175	TN28 TDOT DISTRICT 28 CORS ARP	N354205.606	W0854443.511	24709.1
DJ9546	TN23 TDOT DISTRICT 23 CORS ARP	N355510.684	W0845957.565	50954.9
DJ9548	TN24 TDOT DISTRICT 24 CORS ARP	N360803.697	W0852957.817	51248.2

NEAREST NGS PUBLISHED CONTROL POINT

FC1022 J 43 N354400.000 W0852613.000 7521.7

This position and the above vector components were computed without any knowledge by the National Geodetic Survey regarding the equipment or field operating procedures used.

FILE: 102_77740360.19o OP1554377329216

NGS OPUS SOLUTION REPORT

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All computed coordinate accuracies are listed as peak-to-peak values.

For additional information:

<https://nam05.safelinks.protection.outlook.com/?url=https%3A%2F%2Fwww.ngs.noaa.gov%2FOPUS%2Fabout.jsp%23accuracy&data=02%7C01%7Cmichael.zarlengo%40woolpert.com%7C208b7c975acb4de5274108d6b8f0ef1c%7C49c1e384218e47a1a464d59d76daf482%7C0%7C0%7C636899742281990775&reserved=0>

USER: michael.zarlengo@woolpert.com DATE: April 04, 2019

RINEX FILE: 102_036n.19o

TIME: 11:29:51 UTC

SOFTWARE: page5 1603.24 master72.pl 160321 START: 2019/02/05 13:38:00
 EPHEMERIS: igs20392.eph [precise] STOP: 2019/02/05 22:17:00
 NAV FILE: brdc0360.19n OBS USED: 22081 / 22479 : 98%
 ANT NAME: TRMR8_GNSS3 NONE # FIXED AMB: 78 / 81 : 96%
 ARP HEIGHT: 2.000 OVERALL RMS: 0.017(m)

REF FRAME: NAD_83(2011)(EPOCH:2010.0000) IGS08 (EPOCH:2019.0982)

X: 419754.222(m) 0.003(m) 419753.362(m) 0.003(m)
 Y: -5188340.045(m) 0.013(m) -5188338.592(m) 0.013(m)
 Z: 3673858.856(m) 0.014(m) 3673858.732(m) 0.014(m)

LAT: 35 23 44.45063 0.004(m) 35 23 44.47590 0.004(m)
 E LON: 274 37 31.25276 0.002(m) 274 37 31.22346 0.002(m)
 W LON: 85 22 28.74724 0.002(m) 85 22 28.77654 0.002(m)
 EL HGT: 206.559(m) 0.019(m) 205.250(m) 0.019(m)
 ORTHO HGT: 235.662(m) 0.036(m) [NAVD88 (Computed using GEOID12B)]

UTM COORDINATES STATE PLANE COORDINATES

UTM (Zone 16) SPC (4100 TN)

Northing (Y) [meters]	3918136.835	118048.618
Easting (X) [meters]	647604.761	656809.040
Convergence [degrees]	0.94160278	0.36610278
Point Scale	0.99986850	0.99997749
Combined Factor	0.99983608	0.99994507

US NATIONAL GRID DESIGNATOR: 16SFE4760418136(NAD 83)

BASE STATIONS USED

PID	DESIGNATION	LATITUDE	LONGITUDE	DISTANCE(m)
DJ9546	TN23 TDOT DISTRICT 23 CORS ARP	N355510.684	W0845957.565	67344.1
DL6175	TN28 TDOT DISTRICT 28 CORS ARP	N354205.606	W0854443.511	47771.8
DL6171	TN26 TDOT DISTRICT 26 CORS ARP	N352635.118	W0843748.335	67827.1

NEAREST NGS PUBLISHED CONTROL POINT

FC1129 V 39 N352353.000 W0852223.000 300.8

This position and the above vector components were computed without any knowledge by the National Geodetic Survey regarding the equipment or field operating procedures used.

FILE: 102_77740370.19o OP1554377353400

NGS OPUS SOLUTION REPORT

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All computed coordinate accuracies are listed as peak-to-peak values.

For additional information:

<https://nam05.safelinks.protection.outlook.com/?url=https%3A%2F%2Fwww.ngs.noaa.gov%2FOPUS%2Fabout.jsp%23accuracy&data=02%7C01%7Cmichael.zarlengo%40woolpert.com%7C1f3a2a06b185410fb2b508d6b8f110d6%7C49c1e384218e47a1a464d59d76daf482%7C0%7C0%7C636899742849115850&sdata=4QHkXdXygsW0KxYtaA0yueAM2lBlrPR9vqw9zgiDI%3D&reserved=0>

USER: michael.zarlengo@woolpert.com DATE: April 04, 2019

RINEX FILE: 102_037n.19o

TIME: 11:30:48 UTC

SOFTWARE: page5 1603.24 master81.pl 160321 START: 2019/02/06 13:34:00
 EPHEMERIS: igs20393.eph [precise] STOP: 2019/02/06 23:31:00
 NAV FILE: brdc0370.19n OBS USED: 24649 / 25429 : 97%
 ANT NAME: TRMR8_GNSS3 NONE # FIXED AMB: 101 / 104 : 97%
 ARP HEIGHT: 2.000 OVERALL RMS: 0.018(m)

REF FRAME: NAD_83(2011)(EPOCH:2010.0000) IGS08 (EPOCH:2019.1008)

X: 419754.223(m) 0.004(m) 419753.363(m) 0.004(m)
 Y: -5188340.051(m) 0.010(m) -5188338.598(m) 0.010(m)
 Z: 3673858.859(m) 0.015(m) 3673858.735(m) 0.015(m)

LAT: 35 23 44.45059 0.012(m) 35 23 44.47586 0.012(m)
 E LON: 274 37 31.25280 0.004(m) 274 37 31.22346 0.004(m)
 W LON: 85 22 28.74720 0.004(m) 85 22 28.77654 0.004(m)
 EL HGT: 206.566(m) 0.015(m) 205.257(m) 0.015(m)
 ORTHO HGT: 235.669(m) 0.033(m) [NAVD88 (Computed using GEOID12B)]

UTM COORDINATES STATE PLANE COORDINATES

UTM (Zone 16) SPC (4100 TN)

Northing (Y) [meters] 3918136.834 118048.617
 Easting (X) [meters] 647604.761 656809.041
 Convergence [degrees] 0.94160278 0.36610278
 Point Scale 0.99986850 0.99997749
 Combined Factor 0.99983608 0.99994507

US NATIONAL GRID DESIGNATOR: 16SFE4760418136(NAD 83)

BASE STATIONS USED

PID	DESIGNATION	LATITUDE	LONGITUDE	DISTANCE(m)
DJ9546	TN23 TDOT DISTRICT 23 CORS ARP	N355510.684	W0845957.565	67344.1
DL6175	TN28 TDOT DISTRICT 28 CORS ARP	N354205.606	W0854443.511	47771.8
DL6171	TN26 TDOT DISTRICT 26 CORS ARP	N352635.118	W0843748.335	67827.1

NEAREST NGS PUBLISHED CONTROL POINT

FC1129 V 39 N352353.000 W0852223.000 300.8

This position and the above vector components were computed without any knowledge by the National Geodetic Survey regarding the equipment or field operating procedures used.

FILE: 102_77740380.19o OP1554377375873

NGS OPUS SOLUTION REPORT

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All computed coordinate accuracies are listed as peak-to-peak values.

For additional information:

<https://nam05.safelinks.protection.outlook.com/?url=https%3A%2F%2Fwww.ngs.noaa.gov%2FOPUS%2Fabout.jsp%23accuracy&data=02%7C01%7Cmichael.zarlengo%40woolpert.com%7C86a747614d2b4858e22808d6b8f10e86%7C49c1e384218e47a1a464d59d76daf482%7C0%7C0%7C636899742803323786&data=Q5qeekrM962jNU%2Fh775BCHa8L95MbzfqDFF9t3Oh7%2BM%3D&reserved=0>

USER: michael.zarlengo@woolpert.com DATE: April 04, 2019

RINEX FILE: 102_038q.19o

TIME: 11:30:44 UTC

SOFTWARE: page5 1603.24 master90.pl 160321 START: 2019/02/07 16:12:00
 EPHEMERIS: igs20394.eph [precise] STOP: 2019/02/07 21:00:00
 NAV FILE: brdc0380.19n OBS USED: 12238 / 12808 : 96%
 ANT NAME: TRMR8_GNSS3 NONE # FIXED AMB: 68 / 70 : 97%
 ARP HEIGHT: 2.000 OVERALL RMS: 0.017(m)

REF FRAME: NAD_83(2011)(EPOCH:2010.0000) IGS08 (EPOCH:2019.1035)

X: 419754.219(m) 0.002(m) 419753.359(m) 0.002(m)
 Y: -5188340.043(m) 0.015(m) -5188338.590(m) 0.015(m)
 Z: 3673858.860(m) 0.008(m) 3673858.736(m) 0.008(m)

LAT: 35 23 44.45081 0.002(m) 35 23 44.47604 0.002(m)
 E LON: 274 37 31.25266 0.002(m) 274 37 31.22335 0.002(m)
 W LON: 85 22 28.74734 0.002(m) 85 22 28.77665 0.002(m)
 EL HGT: 206.560(m) 0.017(m) 205.251(m) 0.017(m)
 ORTHO HGT: 235.663(m) 0.035(m) [NAVD88 (Computed using GEOID12B)]

UTM COORDINATES STATE PLANE COORDINATES

UTM (Zone 16) SPC (4100 TN)

Northing (Y) [meters] 3918136.841 118048.623
 Easting (X) [meters] 647604.758 656809.037
 Convergence [degrees] 0.94160278 0.36610278
 Point Scale 0.99986850 0.99997749
 Combined Factor 0.99983608 0.99994507

US NATIONAL GRID DESIGNATOR: 16SFE4760418136(NAD 83)

BASE STATIONS USED

PID	DESIGNATION	LATITUDE	LONGITUDE	DISTANCE(m)
DL6175	TN28 TDOT DISTRICT 28 CORS ARP	N354205.606	W0854443.511	47771.8
DJ9546	TN23 TDOT DISTRICT 23 CORS ARP	N355510.684	W0845957.565	67344.1
DL6171	TN26 TDOT DISTRICT 26 CORS ARP	N352635.118	W0843748.335	67827.1

NEAREST NGS PUBLISHED CONTROL POINT

FC1129 V 39 N352353.000 W0852223.000 300.8

This position and the above vector components were computed without any knowledge by the National Geodetic Survey regarding the equipment or field operating procedures used.

FILE: 102_77740550.19o OP1554377400922

NGS OPUS SOLUTION REPORT

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All computed coordinate accuracies are listed as peak-to-peak values.

For additional information:

<https://nam05.safelinks.protection.outlook.com/?url=https%3A%2F%2Fwww.ngs.noaa.gov%2FOPUS%2Fabout.jsp%23accuracy&data=02%7C01%7Cmichael.zarlengo%40woolpert.com%7Ceba72ce25969427670fb08d6b8f11628%7C49c1e384218e47a1a464d59d76daf482%7C0%7C0%7C636899742930360251&sdata=SGRXntN5bHTFBaPbi2Dgy1lupzcDVTXIA10FLR2zX3o%3D&reserved=0>

USER: michael.zarlengo@woolpert.com DATE: April 04, 2019

RINEX FILE: 102_055o.19o TIME: 11:30:57 UTC

SOFTWARE: page5 1603.24 master71.pl 160321 START: 2019/02/24 14:55:00
 EPHEMERIS: igs20420.eph [precise] STOP: 2019/02/24 20:48:00
 NAV FILE: brdc0550.19n OBS USED: 14409 / 14916 : 97%
 ANT NAME: TRMR8_GNSS3 NONE # FIXED AMB: 71 / 75 : 95%
 ARP HEIGHT: 2.000 OVERALL RMS: 0.016(m)

REF FRAME: NAD_83(2011)(EPOCH:2010.0000) IGS08 (EPOCH:2019.1500)

X: 419754.217(m) 0.006(m) 419753.356(m) 0.006(m)
 Y: -5188340.042(m) 0.018(m) -5188338.589(m) 0.018(m)
 Z: 3673858.852(m) 0.012(m) 3673858.728(m) 0.012(m)

LAT: 35 23 44.45059 0.002(m) 35 23 44.47583 0.002(m)
 E LON: 274 37 31.25258 0.006(m) 274 37 31.22321 0.006(m)
 W LON: 85 22 28.74742 0.006(m) 85 22 28.77679 0.006(m)
 EL HGT: 206.554(m) 0.021(m) 205.245(m) 0.021(m)
 ORTHO HGT: 235.657(m) 0.037(m) [NAVD88 (Computed using GEOID12B)]

UTM COORDINATES STATE PLANE COORDINATES

UTM (Zone 16) SPC (4100 TN)

Northing (Y) [meters]	3918136.834	118048.617
Easting (X) [meters]	647604.756	656809.036
Convergence [degrees]	0.94160278	0.36610278
Point Scale	0.99986850	0.99997749
Combined Factor	0.99983608	0.99994507

US NATIONAL GRID DESIGNATOR: 16SFE4760418136(NAD 83)

BASE STATIONS USED

PID	DESIGNATION	LATITUDE	LONGITUDE	DISTANCE(m)
DL6175	TN28 TDOT DISTRICT 28 CORS ARP	N354205.606	W0854443.511	47771.8
DL6171	TN26 TDOT DISTRICT 26 CORS ARP	N352635.118	W0843748.335	67827.1
DJ9546	TN23 TDOT DISTRICT 23 CORS ARP	N355510.684	W0845957.565	67344.1

NEAREST NGS PUBLISHED CONTROL POINT

FC1129 V 39 N352353.000 W0852223.000 300.8

This position and the above vector components were computed without any knowledge by the National Geodetic Survey regarding the equipment or field operating procedures used.

FILE: 103_77740560.19o OP1554377425927

NGS OPUS SOLUTION REPORT

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All computed coordinate accuracies are listed as peak-to-peak values.

For additional information:

<https://nam05.safelinks.protection.outlook.com/?url=https%3A%2F%2Fwww.ngs.noaa.gov%2FOPUS%2Fabout.jsp%23accuracy&data=02%7C01%7Cmichael.zarlengo%40woolpert.com%7C678fcb1ab9d34ff9894008d6b8f12ddd%7C49c1e384218e47a1a464d59d76daf482%7C0%7C0%7C636899743336430917&sdata=Fi%2FmZrAU8jJvjYvxtr2d1AEARDkrz%2Fwa8yK%2B0EuLcc%3D&reserved=0>

USER: michael.zarlengo@woolpert.com DATE: April 04, 2019

RINEX FILE: 103_056r.19o TIME: 11:31:38 UTC

SOFTWARE: page5 1603.24 master74.pl 160321 START: 2019/02/25 17:41:00
 EPHEMERIS: igs20421.eph [precise] STOP: 2019/02/26 00:24:00
 NAV FILE: brdc0560.19n OBS USED: 16725 / 17169 : 97%
 ANT NAME: TRMR8_GNSS3 NONE # FIXED AMB: 71 / 73 : 97%
 ARP HEIGHT: 2.000 OVERALL RMS: 0.014(m)

REF FRAME: NAD_83(2011)(EPOCH:2010.0000) IGS08 (EPOCH:2019.1531)

X: 3391.629(m) 0.011(m) 3390.760(m) 0.011(m)
 Y: -5201863.127(m) 0.007(m) -5201861.693(m) 0.007(m)
 Z: 3678403.973(m) 0.008(m) 3678403.837(m) 0.008(m)

LAT: 35 26 49.09358 0.007(m) 35 26 49.11698 0.007(m)
 E LON: 270 2 14.48520 0.011(m) 270 2 14.45078 0.011(m)
 W LON: 89 57 45.51480 0.011(m) 89 57 45.54922 0.011(m)
 EL HGT: 47.414(m) 0.008(m) 46.166(m) 0.008(m)
 ORTHO HGT: 74.831(m) 0.031(m) [NAVD88 (Computed using GEOID12B)]

UTM COORDINATES STATE PLANE COORDINATES

UTM (Zone 16) SPC (4100 TN)

Northing (Y) [meters]	3926646.318	130839.649
Easting (X) [meters]	231092.698	240344.361
Convergence [degrees]	-1.71921389	-2.31988889
Point Scale	1.00049122	0.99997108
Combined Factor	1.00048377	0.99996364

US NATIONAL GRID DESIGNATOR: 16SBE3109226646(NAD 83)

BASE STATIONS USED

PID	DESIGNATION	LATITUDE	LONGITUDE	DISTANCE(m)
DO9379	ARJB JONESBORO CORS ARP	N355052.514	W0904449.866	83828.3
DO5142	ARWY WYNNE CORS ARP	N351511.494	W0904805.121	79216.1
DJ9572	TN45 TDOT DISTRICT 45 CORS ARP	N351757.372	W0893934.600	32044.3

NEAREST NGS PUBLISHED CONTROL POINT

FE1332 M 90 N352649.000 W0895746.000 12.6

This position and the above vector components were computed without any knowledge by the National Geodetic Survey regarding the equipment or field operating procedures used.

FILE: 103_77740570.19o OP1554377450486

NGS OPUS SOLUTION REPORT

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All computed coordinate accuracies are listed as peak-to-peak values.

For additional information:

<https://nam05.safelinks.protection.outlook.com/?url=https%3A%2F%2Fwww.ngs.noaa.gov%2FOPUS%2Fabout.jsp%23accuracy&data=02%7C01%7Cmichael.zarlengo%40woolpert.com%7C6480181b1e1247226bb508d6b8f1582c%7C49c1e384218e47a1a464d59d76daf482%7C0%7C0%7C636899744037779451&sdata=xdjzzV61rt2UiiLbSnWSGuR%2FF9PLvTM6uZnMMc6i8gk%3D&reserved=0>

USER: michael.zarlengo@woolpert.com DATE: April 04, 2019

RINEX FILE: 103_0570.19o TIME: 11:32:50 UTC

SOFTWARE: page5 1603.24 master75.pl 160321 START: 2019/02/26 14:14:00
 EPHEMERIS: igs20422.eph [precise] STOP: 2019/02/26 23:35:00
 NAV FILE: brdc0570.19n OBS USED: 24418 / 25299 : 97%
 ANT NAME: TRMR8_GNSS3 NONE # FIXED AMB: 83 / 85 : 98%
 ARP HEIGHT: 2.000 OVERALL RMS: 0.015(m)

REF FRAME: NAD_83(2011)(EPOCH:2010.0000) IGS08 (EPOCH:2019.1556)

X: 3391.632(m) 0.011(m) 3390.763(m) 0.011(m)
 Y: -5201863.134(m) 0.008(m) -5201861.700(m) 0.008(m)
 Z: 3678403.976(m) 0.010(m) 3678403.840(m) 0.010(m)

LAT: 35 26 49.09355 0.012(m) 35 26 49.11695 0.012(m)
 E LON: 270 2 14.48531 0.011(m) 270 2 14.45089 0.011(m)
 W LON: 89 57 45.51469 0.011(m) 89 57 45.54911 0.011(m)
 EL HGT: 47.421(m) 0.004(m) 46.173(m) 0.004(m)
 ORTHO HGT: 74.838(m) 0.030(m) [NAVD88 (Computed using GEOID12B)]

UTM COORDINATES STATE PLANE COORDINATES

UTM (Zone 16) SPC (4100 TN)

Northing (Y) [meters] 3926646.317 130839.648
 Easting (X) [meters] 231092.701 240344.363
 Convergence [degrees] -1.71921389 -2.31988889
 Point Scale 1.00049122 0.99997108
 Combined Factor 1.00048377 0.99996364

US NATIONAL GRID DESIGNATOR: 16SBE3109226646(NAD 83)

BASE STATIONS USED

PID	DESIGNATION	LATITUDE	LONGITUDE	DISTANCE(m)
DH7109	ARPG PARAGOULD CORS ARP	N360332.787	W0903107.624	84516.6
DO5142	ARWY WYNNE CORS ARP	N351511.494	W0904805.121	79216.1
DJ9572	TN45 TDOT DISTRICT 45 CORS ARP	N351757.372	W0893934.600	32044.3

NEAREST NGS PUBLISHED CONTROL POINT

FE1332 M 90 N352649.000 W0895746.000 12.6

This position and the above vector components were computed without any knowledge by the National Geodetic Survey regarding the equipment or field operating procedures used.

FILE: 104_77740590.19o OP1554377475231

NGS OPUS SOLUTION REPORT

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All computed coordinate accuracies are listed as peak-to-peak values.

For additional information:

<https://nam05.safelinks.protection.outlook.com/?url=https%3A%2F%2Fwww.ngs.noaa.gov%2FOPUS%2Fabout.jsp%23accuracy&data=02%7C01%7Cmichael.zarlengo%40woolpert.com%7Cec27fbb4ddfc4f720acf08d6b8f16f80%7C49c1e384218e47a1a464d59d76daf482%7C0%7C0%7C636899744433195353&sdata=ktA%2BZmIJBKwT4j4pbJZyXBio2yJdArYEzhXchAc0X8o%3D&reserved=0>

USER: michael.zarlengo@woolpert.com DATE: April 04, 2019

RINEX FILE: 104_0590.19o TIME: 11:32:57 UTC

SOFTWARE: page5 1603.24 master80.pl 160321 START: 2019/02/28 14:23:00
 EPHEMERIS: igs20424.eph [precise] STOP: 2019/02/28 23:21:00
 NAV FILE: brdc0590.19n OBS USED: 21961 / 23021 : 95%
 ANT NAME: TRMR8_GNSS3 NONE # FIXED AMB: 115 / 119 : 97%
 ARP HEIGHT: 2.000 OVERALL RMS: 0.015(m)

REF FRAME: NAD_83(2011)(EPOCH:2010.0000) IGS08 (EPOCH:2019.1611)

X: 29937.690(m) 0.013(m) 29936.820(m) 0.013(m)
 Y: -5183120.986(m) 0.013(m) -5183119.555(m) 0.013(m)
 Z: 3704516.507(m) 0.019(m) 3704516.374(m) 0.019(m)

LAT: 35 44 10.38361 0.016(m) 35 44 10.40730 0.016(m)
 E LON: 270 19 51.37162 0.013(m) 270 19 51.33731 0.013(m)
 W LON: 89 40 8.62838 0.013(m) 89 40 8.66269 0.013(m)
 EL HGT: 73.564(m) 0.014(m) 72.320(m) 0.014(m)
 ORTHO HGT: 101.177(m) 0.033(m) [NAVD88 (Computed using GEOID12B)]

UTM COORDINATES STATE PLANE COORDINATES

UTM (Zone 16) SPC (4100 TN)

Northing (Y) [meters]	3957976.890	161869.230
Easting (X) [meters]	258617.135	268179.924
Convergence [degrees]	-1.55963056	-2.14801667
Point Scale	1.00031804	0.99994985
Combined Factor	1.00030649	0.99993830

US NATIONAL GRID DESIGNATOR: 16SBE5861757976(NAD 83)

BASE STATIONS USED

PID	DESIGNATION	LATITUDE	LONGITUDE	DISTANCE(m)
DJ9566	TN42 TDOT DISTRICT 42 CORS ARP	N360812.548	W0891453.313	58467.8
DJ9570	TN44 TDOT DISTRICT 44 CORS ARP	N353825.502	W0885508.627	68715.4
DN6083	MOHT MODOT HAYTI CORS ARP	N361437.952	W0894341.855	56582.2

NEAREST NGS PUBLISHED CONTROL POINT

FE1584 A 151 N354621.000 W0894040.000 4102.1

This position and the above vector components were computed without any knowledge by the National Geodetic Survey regarding the equipment or field operating procedures used.

FILE: 104_77740601.19o OP1554377498302

NGS OPUS SOLUTION REPORT

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All computed coordinate accuracies are listed as peak-to-peak values.

For additional information:

<https://nam05.safelinks.protection.outlook.com/?url=https%3A%2F%2Fwww.ngs.noaa.gov%2FOPUS%2Fabout.jsp%23accuracy&data=02%7C01%7Cmichael.zarlengo%40woolpert.com%7C61838fe994fd413af4cb08d6b8f16f77%7C49c1e384218e47a1a464d59d76daf482%7C0%7C0%7C636899744430893759&sdata=qX9%2B3uxZ2I7lnCrRJ1R2Ug04JYmTWfBUrGtPzEjIMfk%3D&reserved=0>

USER: michael.zarlengo@woolpert.com DATE: April 04, 2019

RINEX FILE: 104_060p.19o TIME: 11:32:58 UTC

SOFTWARE: page5 1603.24 master90.pl 160321 START: 2019/03/01 15:01:00
 EPHEMERIS: igs20425.eph [precise] STOP: 2019/03/01 18:42:00
 NAV FILE: brdc0600.19n OBS USED: 9477 / 9991 : 95%
 ANT NAME: TRMR8_GNSS3 NONE # FIXED AMB: 54 / 56 : 96%
 ARP HEIGHT: 2.000 OVERALL RMS: 0.013(m)

REF FRAME: NAD_83(2011)(EPOCH:2010.0000) IGS08 (EPOCH:2019.1636)

X:	29937.685(m)	0.013(m)	29936.815(m)	0.013(m)
Y:	-5183120.991(m)	0.012(m)	-5183119.560(m)	0.012(m)
Z:	3704516.514(m)	0.009(m)	3704516.381(m)	0.009(m)

LAT:	35 44 10.38368	0.014(m)	35 44 10.40741	0.014(m)
E LON:	270 19 51.37140	0.013(m)	270 19 51.33713	0.013(m)
W LON:	89 40 8.62860	0.013(m)	89 40 8.66287	0.013(m)
EL HGT:	73.572(m)	0.006(m)	72.329(m)	0.006(m)
ORTHO HGT:	101.185(m)	0.031(m)	[NAVD88 (Computed using GEOID12B)]	

UTM COORDINATES STATE PLANE COORDINATES

UTM (Zone 16) SPC (4100 TN)

Northing (Y) [meters]	3957976.892	161869.232
Easting (X) [meters]	258617.130	268179.918
Convergence [degrees]	-1.55963056	-2.14801667
Point Scale	1.00031804	0.99994985
Combined Factor	1.00030649	0.99993830

US NATIONAL GRID DESIGNATOR: 16SBE5861757976(NAD 83)

BASE STATIONS USED

PID	DESIGNATION	LATITUDE	LONGITUDE	DISTANCE(m)
DN6083	MOHT MODOT HAYTI CORS ARP	N361437.952	W0894341.855	56582.2
DL6892	MOKE MODOT KENNETT CORS ARP	N361317.104	W0900424.467	65028.2
DJ9566	TN42 TDOT DISTRICT 42 CORS ARP	N360812.548	W0891453.313	58467.8

NEAREST NGS PUBLISHED CONTROL POINT

FE1584 A 151 N354621.000 W0894040.000 4102.1

This position and the above vector components were computed without any knowledge by the National Geodetic Survey regarding the equipment or field operating procedures used.

FILE: 104_77740604.19o OP1554377521719

NGS OPUS SOLUTION REPORT

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All computed coordinate accuracies are listed as peak-to-peak values.

For additional information:

<https://nam05.safelinks.protection.outlook.com/?url=https%3A%2F%2Fwww.ngs.noaa.gov%2FOPUS%2Fabout.jsp%23accuracy&data=02%7C01%7Cmichael.zarlengo%40woolpert.com%7Cbc37e8ccdac042f1991d08d6b8f17955%7C49c1e384218e47a1a464d59d76daf482%7C0%7C0%7C636899744599013996&sdata=UbpPCkoxYK mNJG%2Fkry8AwDD2iMH7khNQ1Fj8XNv7tSM%3D&reserved=0>

USER: michael.zarlengo@woolpert.com DATE: April 04, 2019

RINEX FILE: 104_060s.19o

TIME: 11:33:13 UTC

SOFTWARE: page5 1603.24 master81.pl 160321 START: 2019/03/01 18:56:00
 EPHEMERIS: igs20425.eph [precise] STOP: 2019/03/02 00:04:00
 NAV FILE: brdc0600.19n OBS USED: 12306 / 12840 : 96%
 ANT NAME: TRMR8_GNSS3 NONE # FIXED AMB: 52 / 52 : 100%
 ARP HEIGHT: 2.000 OVERALL RMS: 0.015(m)

REF FRAME: NAD_83(2011)(EPOCH:2010.0000) IGS08 (EPOCH:2019.1641)

X: 29937.684(m) 0.005(m) 29936.814(m) 0.005(m)
 Y: -5183120.987(m) 0.006(m) -5183119.556(m) 0.006(m)
 Z: 3704516.500(m) 0.007(m) 3704516.367(m) 0.007(m)

LAT: 35 44 10.38340 0.002(m) 35 44 10.40712 0.002(m)
 E LON: 270 19 51.37136 0.005(m) 270 19 51.33706 0.005(m)
 W LON: 89 40 8.62864 0.005(m) 89 40 8.66294 0.005(m)
 EL HGT: 73.560(m) 0.009(m) 72.317(m) 0.009(m)
 ORTHO HGT: 101.173(m) 0.031(m) [NAVD88 (Computed using GEOID12B)]

UTM COORDINATES STATE PLANE COORDINATES

UTM (Zone 16) SPC (4100 TN)

Northing (Y) [meters]	3957976.883	161869.223
Easting (X) [meters]	258617.129	268179.917
Convergence [degrees]	-1.55963056	-2.14801667
Point Scale	1.00031804	0.99994985
Combined Factor	1.00030649	0.99993831

US NATIONAL GRID DESIGNATOR: 16SBE5861757976(NAD 83)

BASE STATIONS USED

PID	DESIGNATION	LATITUDE	LONGITUDE	DISTANCE(m)
DN6083	MOHT MODOT HAYTI CORS ARP	N361437.952	W0894341.855	56582.2
DL6892	MOKE MODOT KENNETT CORS ARP	N361317.104	W0900424.467	65028.2
DJ9570	TN44 TDOT DISTRICT 44 CORS ARP	N353825.502	W0885508.627	68715.4

NEAREST NGS PUBLISHED CONTROL POINT

FE1584 A 151 N354621.000 W0894040.000 4102.1

This position and the above vector components were computed without any knowledge by the National Geodetic Survey regarding the equipment or field operating procedures used.

FILE: 105_77740630.19o OP1554377541887

NGS OPUS SOLUTION REPORT

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All computed coordinate accuracies are listed as peak-to-peak values.

For additional information:

<https://nam05.safelinks.protection.outlook.com/?url=https%3A%2F%2Fwww.ngs.noaa.gov%2FOPUS%2Fabout.jsp%23accuracy&data=02%7C01%7Cmichael.zarlengo%40woolpert.com%7C8f019c2ee7a54e17a54b08d6b8f1a895%7C49c1e384218e47a1a464d59d76daf482%7C0%7C0%7C636899745389261099&sdata=cp0X67Q4DytpyQjEjQIOayJibrOkz dq0dVnnY%2B91dR8%3D&reserved=0>

USER: michael.zarlengo@woolpert.com DATE: April 04, 2019

RINEX FILE: 105_063q.19o TIME: 11:34:29 UTC

SOFTWARE: page5 1603.24 master73.pl 160321 START: 2019/03/04 16:12:00
 EPHEMERIS: igs20431.eph [precise] STOP: 2019/03/05 00:06:00
 NAV FILE: brdc0630.19n OBS USED: 20352 / 21108 : 96%
 ANT NAME: TRMR8_GNSS3 NONE # FIXED AMB: 89 / 90 : 99%
 ARP HEIGHT: 2.000 OVERALL RMS: 0.013(m)

REF FRAME: NAD_83(2011)(EPOCH:2010.0000) IGS08 (EPOCH:2019.1722)

X: 114784.348(m) 0.015(m) 114783.477(m) 0.015(m)
 Y: -5139189.466(m) 0.016(m) -5139188.039(m) 0.016(m)
 Z: 3763243.961(m) 0.016(m) 3763243.836(m) 0.016(m)

LAT: 36 23 26.81884 0.012(m) 36 23 26.84342 0.012(m)
 E LON: 271 16 46.18074 0.015(m) 271 16 46.14708 0.015(m)
 W LON: 88 43 13.81926 0.015(m) 88 43 13.85292 0.015(m)
 EL HGT: 98.824(m) 0.021(m) 97.586(m) 0.021(m)
 ORTHO HGT: 127.096(m) 0.036(m) [NAVD88 (Computed using GEOID12B)]

UTM COORDINATES STATE PLANE COORDINATES

UTM (Zone 16) SPC (4100 TN)

Northing (Y) [meters]	4028668.159	231668.589
Easting (X) [meters]	345696.653	355957.606
Convergence [degrees]	-1.02095833	-1.59269167
Point Scale	0.99989336	0.99999551
Combined Factor	0.99987785	0.99998000

US NATIONAL GRID DESIGNATOR: 16SCF4569628668(NAD 83)

BASE STATIONS USED

PID	DESIGNATION	LATITUDE	LONGITUDE	DISTANCE(m)
DM4118	MOCH MODOT CHARLESTON CORS ARP	N365505.224	W0891907.586	79284.2
DJ9566	TN42 TDOT DISTRICT 42 CORS ARP	N360812.548	W0891453.313	55157.8
DL6197	TN48 TDOT DISTRICT 48 CORS ARP	N361745.755	W0881747.680	39482.4

NEAREST NGS PUBLISHED CONTROL POINT

GD1488 DRESDEN N361823.605 W0884235.880 9393.9

This position and the above vector components were computed without any knowledge by the National Geodetic Survey regarding the equipment or field operating procedures used.

FILE: 110_44283520.19o OP1581733305632

NGS OPUS SOLUTION REPORT

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All computed coordinate accuracies are listed as peak-to-peak values.

For additional information:

<https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fwww.ngs.noaa.gov%2FOPUS%2Fabout.jsp%23accuracy&data=02%7C01%7Cmichael.zarlengo%40woolpert.com%7C0507c22e15be48ed1e6608d7b1be5086%7C987179e81c49493a88e806d464695b5c%7C0%7C0%7C637173303262949956&reserved=0>

USER: michael.zarlengo@woolpert.com

DATE: February 15, 2020

RINEX FILE: 110_3520.19o

TIME: 02:24:00 UTC

SOFTWARE: page5 1801.18 master55.pl 160321 START: 2019/12/18 14:48:00
 EPHEMERIS: igs20843.eph [precise] STOP: 2019/12/18 22:55:00
 NAV FILE: brdc3520.19n OBS USED: 20703 / 21816 : 95%
 ANT NAME: TRMR8_GNSS3 NONE # FIXED AMB: 88 / 90 : 98%
 ARP HEIGHT: 2.000 OVERALL RMS: 0.014(m)

REF FRAME: NAD_83(2011)(EPOCH:2010.0000) ITRF2014 (EPOCH:2019.9638)

X: 130232.103(m) 0.008(m) 130231.223(m) 0.008(m)
 Y: -5202384.039(m) 0.028(m) -5202382.600(m) 0.028(m)
 Z: 3675513.061(m) 0.015(m) 3675512.927(m) 0.015(m)

LAT: 35 24 52.22794 0.004(m) 35 24 52.25188 0.004(m)
 E LON: 271 26 2.38135 0.008(m) 271 26 2.34794 0.008(m)
 W LON: 88 33 57.61865 0.008(m) 88 33 57.65206 0.008(m)
 EL HGT: 123.038(m) 0.032(m) 121.770(m) 0.032(m)
 ORTHO HGT: 151.037(m) 0.050(m) [NAVD88 (Computed using GEOID18)]

UTM COORDINATES STATE PLANE COORDINATES

UTM (Zone 16) SPC (4100 TN)

Northing (Y) [meters]	3920138.116	123010.929
Easting (X) [meters]	357817.941	366974.004
Convergence [degrees]	-0.90763333	-1.50224167
Point Scale	0.99984913	0.99997504
Combined Factor	0.99982982	0.99995573

US NATIONAL GRID DESIGNATOR: 16SCE5781720138(NAD 83)

BASE STATIONS USED

PID	DESIGNATION	LATITUDE	LONGITUDE	DISTANCE(m)
DJ9564	TN41 TDOT DISTRICT 41 CORS ARP	N360734.877	W0883045.865	79130.5
DM3531	TN30 TDOT DISTRICT 30 CORS ARP	N353305.845	W0873426.207	91305.7
DL7339	TN40 TDOT DISTRICT 40 CORS ARP	N353850.617	W0882404.311	29851.2

NEAREST NGS PUBLISHED CONTROL POINT

FE0508 Z 158 N352333.000 W0883600.000 3936.7

This position and the above vector components were computed without any knowledge by the National Geodetic Survey regarding the equipment or field operating procedures used.

FILE: 120_44280131.20o OP1581733338850

NGS OPUS SOLUTION REPORT

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All computed coordinate accuracies are listed as peak-to-peak values.

For additional information:

<https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fwww.ngs.noaa.gov%2FOPUS%2Fabout.jsp%23accuracy&data=02%7C01%7Cmichael.zarlengo%40woolpert.com%7Cfe1892f636224b60e1de08d7b1be6142%7C987179e81c49493a88e806d464695b5c%7C0%7C0%7C637173303541321687&sdta=p%2FG73xM WXIALT947%2FBQsW4ltyW5u61CagN3GYPKlx8c%3D&reserved=0>

USER: michael.zarlengo@woolpert.com

DATE: February 15, 2020

RINEX FILE: 120_013p.20o

TIME: 02:25:33 UTC

SOFTWARE: page5 1801.18 master71.pl 160321 START: 2020/01/13 15:28:00
 EPHEMERIS: igs20881.eph [precise] STOP: 2020/01/14 00:37:00
 NAV FILE: brdc0130.20n OBS USED: 22298 / 24868 : 90%
 ANT NAME: TRMR8_GNSS3 NONE # FIXED AMB: 123 / 127 : 97%
 ARP HEIGHT: 2.000 OVERALL RMS: 0.015(m)

REF FRAME: NAD_83(2011)(EPOCH:2010.0000) ITRF2014 (EPOCH:2020.0351)

X: 105693.631(m) 0.002(m) 105692.746(m) 0.002(m)
 Y: -5149728.749(m) 0.014(m) -5149727.321(m) 0.014(m)
 Z: 3749170.287(m) 0.009(m) 3749170.158(m) 0.009(m)

LAT: 36 14 0.21422 0.002(m) 36 14 0.23860 0.002(m)
 E LON: 271 10 32.80858 0.002(m) 271 10 32.77430 0.002(m)
 W LON: 88 49 27.19142 0.002(m) 88 49 27.22570 0.002(m)
 EL HGT: 98.331(m) 0.016(m) 97.089(m) 0.016(m)
 ORTHO HGT: 126.580(m) 0.037(m) [NAVD88 (Computed using GEOID18)]

UTM COORDINATES STATE PLANE COORDINATES

UTM (Zone 16) SPC (4100 TN)

Northing (Y) [meters]	4011378.491	214474.931
Easting (X) [meters]	336064.800	346152.543
Convergence [degrees]	-1.07849167	-1.65341111
Point Scale	0.99993114	0.99997262
Combined Factor	0.99991571	0.99995719

US NATIONAL GRID DESIGNATOR: 16SCF3606411378(NAD 83)

BASE STATIONS USED

PID	DESIGNATION	LATITUDE	LONGITUDE	DISTANCE(m)
DL7339	TN40 TDOT DISTRICT 40 CORS ARP	N353850.617	W0882404.311	75397.6
DJ9564	TN41 TDOT DISTRICT 41 CORS ARP	N360734.877	W0883045.865	30434.0
DN6083	MOHT MODOT HAYTI CORS ARP	N361437.952	W0894341.855	81276.8

NEAREST NGS PUBLISHED CONTROL POINT

GD1501 SHARON MUNICIPAL TANK N361358.087 W0884931.243 120.6

This position and the above vector components were computed without any knowledge by the National Geodetic Survey regarding the equipment or field operating procedures used.

FILE: 130_44280140.20o OP1581733375626

NGS OPUS SOLUTION REPORT

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All computed coordinate accuracies are listed as peak-to-peak values.

For additional information:

<https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fwww.ngs.noaa.gov%2FOPUS%2Fabout.jsp%23accuracy&data=02%7C01%7Cmichael.zarlengo%40woolpert.com%7C3b8fc2df324d44cda36508d7b1be6670%7C987179e81c49493a88e806d464695b5c%7C0%7C0%7C637173303642301240&sdata=17jdsTwtT9OwHCEG4Yky76Hy0S8ShPb8mv9fqa3BET0%3D&reserved=0>

USER: michael.zarlengo@woolpert.com DATE: February 15, 2020

RINEX FILE: 130_014o.20o TIME: 02:25:34 UTC

SOFTWARE: page5 1801.18 master96.pl 160321 START: 2020/01/14 14:50:00
 EPHEMERIS: igs20882.eph [precise] STOP: 2020/01/14 21:04:00
 NAV FILE: brdc0140.20n OBS USED: 18256 / 19236 : 95%
 ANT NAME: TRMR8_GNSS3 NONE # FIXED AMB: 87 / 88 : 99%
 ARP HEIGHT: 2.000 OVERALL RMS: 0.013(m)

REF FRAME: NAD_83(2011)(EPOCH:2010.0000) ITRF2014 (EPOCH:2020.0376)

X: 63638.352(m) 0.006(m) 63637.466(m) 0.006(m)
 Y: -5144230.224(m) 0.012(m) -5144228.799(m) 0.012(m)
 Z: 3757631.782(m) 0.006(m) 3757631.652(m) 0.006(m)

LAT: 36 19 40.32649 0.006(m) 36 19 40.35072 0.006(m)
 E LON: 270 42 31.53488 0.005(m) 270 42 31.50007 0.005(m)
 W LON: 89 17 28.46512 0.005(m) 89 17 28.49993 0.005(m)
 EL HGT: 115.867(m) 0.012(m) 114.633(m) 0.012(m)
 ORTHO HGT: 144.175(m) 0.033(m) [NAVD88 (Computed using GEOID18)]

UTM COORDINATES STATE PLANE COORDINATES

UTM (Zone 16) SPC (4100 TN)

Northing (Y) [meters] 4022751.690 226263.665
 Easting (X) [meters] 294337.638 304542.835
 Convergence [degrees] -1.35781944 -1.92682222
 Point Scale 1.00012117 0.99998546
 Combined Factor 1.00010298 0.99996728

US NATIONAL GRID DESIGNATOR: 16SBF9433722751(NAD 83)

BASE STATIONS USED

PID	DESIGNATION	LATITUDE	LONGITUDE	DISTANCE(m)
DL6892	MOKE MODOT KENNETT CORS ARP	N361317.104	W0900424.467	71268.8
DJ9566	TN42 TDOT DISTRICT 42 CORS ARP	N360812.548	W0891453.313	21551.0
DJ9564	TN41 TDOT DISTRICT 41 CORS ARP	N360734.877	W0883045.865	73476.4

NEAREST NGS PUBLISHED CONTROL POINT

GD0772 J 13 N361952.000 W0891747.000 585.8

This position and the above vector components were computed without any knowledge by the National Geodetic Survey regarding the equipment or field operating procedures used.

The NGS Data Sheet

See file [dsdata.pdf](#) for more information about the datasheet.

PROGRAM = datasheet95, VERSION = 8.12.5.11

Starting Datasheet Retrieval...

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1      National Geodetic Survey,   Retrieval Date = JANUARY 22, 2021
FE0594 *****
FE0594 HT_MOD      -   This is a Height Modernization Survey Station.
FE0594 DESIGNATION -   1
FE0594 PID         -   FE0594
FE0594 STATE/COUNTY-   TN/MADISON
FE0594 COUNTRY     -   US
FE0594 USGS QUAD   -   WESTOVER (2019)
FE0594
FE0594                      *CURRENT SURVEY CONTROL
FE0594
FE0594* NAD 83(2011) POSITION- 35 37 22.31723(N) 088 58 58.97118(W) ADJUSTED
FE0594* NAD 83(2011) ELLIP HT- 109.140 (meters) (06/27/12) ADJUSTED
FE0594* NAD 83(2011) EPOCH - 2010.00
FE0594* NAVD 88 ORTHO HEIGHT - 137.33 (meters) 450.6 (feet) GPS OBS
FE0594
FE0594 NAVD 88 orthometric height was determined with geoid model GEOID03
FE0594 GEOID HEIGHT - -28.142 (meters) GEOID03
FE0594 GEOID HEIGHT - -28.151 (meters) GEOID18
FE0594 NAD 83(2011) X - 92,123.497 (meters) COMP
FE0594 NAD 83(2011) Y - -5,189,754.260 (meters) COMP
FE0594 NAD 83(2011) Z - 3,694,321.139 (meters) COMP
FE0594 LAPLACE CORR - -1.28 (seconds) DEFLEC18
FE0594
FE0594 Network accuracy estimates per FGDC Geospatial Positioning Accuracy
FE0594 Standards:
FE0594      FGDC (95% conf, cm)      Standard deviation (cm)      CorrNE
FE0594      Horiz Ellip              SD_N   SD_E   SD_h      (unitless)
FE0594 -----
FE0594 NETWORK      1.19   2.27              0.53   0.43   1.16      -0.05772925
FE0594 -----
FE0594 Click here for local accuracies and other accuracy information.
FE0594
FE0594
FE0594.The horizontal coordinates were established by GPS observations
FE0594.and adjusted by the National Geodetic Survey in June 2012.
FE0594
FE0594.NAD 83(2011) refers to NAD 83 coordinates where the reference frame has
FE0594.been affixed to the stable North American tectonic plate. See
FE0594.NA2011 for more information.
FE0594
FE0594.The horizontal coordinates are valid at the epoch date displayed above
FE0594.which is a decimal equivalence of Year/Month/Day.
FE0594
FE0594.The orthometric height was determined by GPS observations and a
FE0594.high-resolution geoid model using precise GPS observation and

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FE0594

FE0594

STATION DESCRIPTION

FE0594

FE0594'DESCRIBED BY COAST AND GEODETIC SURVEY 1959

FE0594'16.3 MI E FROM BROWNSVILLE.

FE0594'9.7 MILES EAST ALONG U.S. HIGHWAY 70 FROM THE COURTHOUSE IN

FE0594'BROWNSVILLE, THENCE 6.6 MILES NORTH-NORTHEAST ALONG INTERSTATE

FE0594'HIGHWAY 40. IT IS A DISK SET IN THE NORTHWEST END OF AN OVERPASS

FE0594'OVER INTERSTATE HIGHWAY 40, 14.5 FEET SOUTH OF THE NORTH END

FE0594'OF THE NORTHWEST WALKWAY OF THE OVERPASS.

FE0594

FE0594

STATION RECOVERY (2002)

FE0594

FE0594'RECOVERY NOTE BY US ARMY CORPS OF ENGINEERS 2002 (JMH)

FE0594'RECOVERED IN GOOD CONDITION.

*** retrieval complete.

Elapsed Time = 00:00:01

The NGS Data Sheet

See file [dsdata.pdf](#) for more information about the datasheet.

PROGRAM = datasheet95, VERSION = 8.12.5.11

Starting Datasheet Retrieval...

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1      National Geodetic Survey,      Retrieval Date = JANUARY 22, 2021
FE1523 *****
FE1523 DESIGNATION - D 95
FE1523 PID - FE1523
FE1523 STATE/COUNTY- TN/DYER
FE1523 COUNTRY - US
FE1523 USGS QUAD - CHIC (2019)
FE1523
FE1523 *CURRENT SURVEY CONTROL
FE1523
FE1523* NAD 83(2011) POSITION- 35 59 58.88805(N) 089 41 20.65622(W) ADJUSTED
FE1523* NAD 83(2011) ELLIP HT- 51.834 (meters) (06/27/12) ADJUSTED
FE1523* NAD 83(2011) EPOCH - 2010.00
FE1523* NAVD 88 ORTHO HEIGHT - 80.059 (meters) 262.66 (feet) ADJUSTED
FE1523
FE1523 GEOID HEIGHT - -28.207 (meters) GEOID18
FE1523 NAD 83(2011) X - 28,034.689 (meters) COMP
FE1523 NAD 83(2011) Y - -5,165,984.789 (meters) COMP
FE1523 NAD 83(2011) Z - 3,728,194.416 (meters) COMP
FE1523 LAPLACE CORR - 0.20 (seconds) DEFLEC18
FE1523 DYNAMIC HEIGHT - 79.992 (meters) 262.44 (feet) COMP
FE1523 MODELED GRAVITY - 979,795.2 (mgal) NAVD 88
FE1523
FE1523 VERT ORDER - FIRST CLASS II
FE1523
FE1523 Network accuracy estimates per FGDC Geospatial Positioning Accuracy
FE1523 Standards:
FE1523 FGDC (95% conf, cm) Standard deviation (cm) CorrNE
FE1523 Horiz Ellip SD_N SD_E SD_h (unitless)
FE1523 -----
FE1523 NETWORK 1.70 2.29 0.76 0.61 1.17 0.10248725
FE1523 -----
FE1523 Click here for local accuracies and other accuracy information.
FE1523
FE1523
FE1523.The horizontal coordinates were established by GPS observations
FE1523.and adjusted by the National Geodetic Survey in June 2012.
FE1523
FE1523.NAD 83(2011) refers to NAD 83 coordinates where the reference frame has
FE1523.been affixed to the stable North American tectonic plate. See
FE1523.NA2011 for more information.
FE1523
FE1523.The horizontal coordinates are valid at the epoch date displayed above
FE1523.which is a decimal equivalence of Year/Month/Day.
FE1523
FE1523.The orthometric height was determined by differential leveling and
FE1523.adjusted by the NATIONAL GEODETIC SURVEY
FE1523.in June 1991.

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FE1523_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
 FE1523+SATELLITE: SATELLITE OBSERVATIONS - June 10, 2008

FE1523

FE1523	HISTORY	- Date	Condition	Report By
FE1523	HISTORY	- 1957	MONUMENTED	CGS
FE1523	HISTORY	- 20020806	GOOD	USACE
FE1523	HISTORY	- 20030708	GOOD	EMCINC
FE1523	HISTORY	- 20080610	GOOD	USACE

FE1523

FE1523 STATION DESCRIPTION

FE1523

FE1523'DESCRIBED BY COAST AND GEODETIC SURVEY 1957

FE1523'0.4 MI S FROM MIDWAY.

FE1523'0.45 MILE SOUTH ALONG A ONE-LANE PAVED ROAD FROM THE BAPTIST
 FE1523'CHURCH AT MIDWAY, 56 FEET EAST OF EAST EDGE OF PAVEMENT, 135
 FE1523'FEET WEST OF TELEPHONE POLE NO. 162, 48 FEET NORTHEAST OF A
 FE1523'POWER LINE BRANCH POLE, 39 1/2 FEET SOUTH OF SOUTHWEST CORNER
 FE1523'OF A HOUSE OWNED IN 1957 BY A.B. WILLARD, 67 3/4 FEET SOUTHWEST
 FE1523'OF A WELL WITH PUMP, 6 1/2 FEET WEST OF A 3-INCH MULBERRY TREE
 FE1523'WHICH IS IN A FENCE LINE, 2 FEET WEST OF A CONCRETE WITNESS
 FE1523'POST, ABOUT 1/2 FOOT ABOVE LEVEL OF ROAD AND SET IN THE TOP OF A
 FE1523'CONCRETE POST PROJECTING 3 INCHES.

FE1523

FE1523 STATION RECOVERY (2002)

FE1523

FE1523'RECOVERY NOTE BY US ARMY CORPS OF ENGINEERS 2002 (JMH)

FE1523'RECOVERED IN GOOD CONDITION.

FE1523

FE1523 STATION RECOVERY (2003)

FE1523

FE1523'RECOVERY NOTE BY EMC INCORPORATED 2003 (MG)

FE1523'RECOVERED AS DESCRIBED.

FE1523

FE1523 STATION RECOVERY (2008)

FE1523

FE1523'RECOVERY NOTE BY US ARMY CORPS OF ENGINEERS 2008 (JMH)

FE1523'ALL REFERENCES NOW GONE. A NEW POWER POLE HAS BEEN SET AT THE
 FE1523'LOCATION OF THE TELEPHONE POLE IN THE ORIGINAL DESCRIPTION AND
 FE1523'DISTANCE FROM CENTERLINE OF ROAD IS STILL GOOD. A CARSONITE WITNESS
 FE1523'POST HAS BEEN SET 1.2 FT. NW OF MARK. MARK IS 0.3 FT. BELOW GROUND
 FE1523'LEVEL.

*** retrieval complete.

Elapsed Time = 00:00:02

The NGS Data Sheet

See file [dsdata.pdf](#) for more information about the datasheet.

PROGRAM = datasheet95, VERSION = 8.12.5.11

Starting Datasheet Retrieval...

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1      National Geodetic Survey,   Retrieval Date = JANUARY 22, 2021
GD1865 *****
GD1865 FBN          -   This is a Federal Base Network Control Station.
GD1865 DESIGNATION -   GPS 17
GD1865 PID          -   GD1865
GD1865 STATE/COUNTY-   TN/OBION
GD1865 COUNTRY      -   US
GD1865 USGS QUAD    -   OBION (2019)
GD1865
GD1865                      *CURRENT SURVEY CONTROL
GD1865
GD1865* NAD 83(2011) POSITION- 36 17 00.92974(N) 089 12 15.25151(W) ADJUSTED
GD1865* NAD 83(2011) ELLIP HT-   66.339 (meters)                (06/27/12) ADJUSTED
GD1865* NAD 83(2011) EPOCH   -   2010.00
GD1865* NAVD 88 ORTHO HEIGHT -   94.676 (meters)                310.62 (feet) ADJUSTED
GD1865
GD1865 GEOID HEIGHT   -   -28.325 (meters)                      GEOID18
GD1865 NAD 83(2011) X   -   71,489.650 (meters)                  COMP
GD1865 NAD 83(2011) Y   -  -5,146,996.567 (meters)              COMP
GD1865 NAD 83(2011) Z   -   3,753,643.029 (meters)              COMP
GD1865 LAPLACE CORR    -   0.47 (seconds)                        DEFLEC18
GD1865 DYNAMIC HEIGHT  -   94.597 (meters)                310.36 (feet) COMP
GD1865 MODELED GRAVITY -   979,802.7 (mgal)                  NAVD 88
GD1865
GD1865 VERT ORDER      -   SECOND CLASS II
GD1865
GD1865 Network accuracy estimates per FGDC Geospatial Positioning Accuracy
GD1865 Standards:
GD1865          FGDC (95% conf, cm)      Standard deviation (cm)      CorrNE
GD1865          Horiz Ellip              SD_N   SD_E   SD_h          (unitless)
GD1865 -----
GD1865 NETWORK    0.33    0.80              0.15   0.12   0.41          0.01681137
GD1865 -----
GD1865 Click here for local accuracies and other accuracy information.
GD1865
GD1865
GD1865.The horizontal coordinates were established by GPS observations
GD1865.and adjusted by the National Geodetic Survey in June 2012.
GD1865
GD1865.NAD 83(2011) refers to NAD 83 coordinates where the reference frame has
GD1865.been affixed to the stable North American tectonic plate. See
GD1865.NA2011 for more information.
GD1865
GD1865.The horizontal coordinates are valid at the epoch date displayed above
GD1865.which is a decimal equivalence of Year/Month/Day.
GD1865

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GD1865 NAVD 88 (12/14/95) 94.7 (m) GEOID93 model used GPS OBS
 GD1865 NAVD 88 (09/07/94) 94.7 (m) GEOID93 model used GPS OBS
 GD1865 NGVD 29 (??/??/??) 94.38 (m) 309.6 (f) N HEIGHT 3
 GD1865 NGVD 29 (05/28/98) 94.7 (m) UNKNOWN model used GPS OBS
 GD1865 NGVD 29 94.38 (m) 309.6 (f) LEVELING 3

GD1865

GD1865.Superseded values are not recommended for survey control.

GD1865

GD1865.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.

GD1865.See file [dsdata.pdf](#) to determine how the superseded data were derived.

GD1865

GD1865_MARKER: F = FLANGE-ENCASED ROD

GD1865_SETTING: 59 = STAINLESS STEEL ROD IN SLEEVE (10 FT.+)

GD1865_STAMPING: GPS 17 1987

GD1865_MARK LOGO: NGS

GD1865_PROJECTION: FLUSH

GD1865_MAGNETIC: N = NO MAGNETIC MATERIAL

GD1865_STABILITY: B = PROBABLY HOLD POSITION/ELEVATION WELL

GD1865_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR

GD1865+SATELLITE: SATELLITE OBSERVATIONS - June 15, 2010

GD1865_ROD/PIPE-DEPTH: 11.6 meters

GD1865_SLEEVE-DEPTH : 0.90 meters

GD1865

GD1865	HISTORY	- Date	Condition	Report By
GD1865	HISTORY	- 19870101	MONUMENTED	NGS
GD1865	HISTORY	- 1987	GOOD	NGS
GD1865	HISTORY	- 19890428	GOOD	
GD1865	HISTORY	- 19910312	GOOD	NGS
GD1865	HISTORY	- 19931115	GOOD	NGS
GD1865	HISTORY	- 19940307	GOOD	
GD1865	HISTORY	- 19950620	GOOD	NGS
GD1865	HISTORY	- 19970306	GOOD	NGS
GD1865	HISTORY	- 19980203	GOOD	TNDT
GD1865	HISTORY	- 20010510	GOOD	NGS
GD1865	HISTORY	- 20020506	GOOD	EMCINC
GD1865	HISTORY	- 20031010	GOOD	TNDT
GD1865	HISTORY	- 20081211	GOOD	TNDOT
GD1865	HISTORY	- 20100615	GOOD	GEOCAC

GD1865

STATION DESCRIPTION

GD1865

GD1865'DESCRIBED BY NATIONAL GEODETIC SURVEY 1987 (DAC)

GD1865'THE STATION IS LOCATED ABOUT 20.9 KM (13 MI)

GD1865'SOUTHWEST OF UNION CITY,

GD1865'3.2 KM (2 MI) NORTHWEST OF OBION, AND ON THE EAST RIGHT-OF-WAY OF

GD1865'U.S. HIGHWAY 51 (ALSO KNOWN AS INTERSTATE 155).

GD1865'OWNERSHIP--HIGHWAY RIGHT-OF-WAY.

GD1865'

GD1865'TO REACH THE STATION FROM THE JUNCTION OF STATE ROUTE 183 AND U.S.

GD1865'HIGHWAY 51 JUST WEST OF OBION GO NORTH FOR 2.4 KM (1.5 MI) ON U.S.

GD1865'HIGHWAY 51 TO AN OVERPASS BRIDGE.

GD1865'CONTINUE STRAIGHT AHEAD AND GO NORTH FOR 0.3 KM (0.2 MI) ON U.S.

GD1865'HIGHWAY 51 TO THE STATION ON THE RIGHT.

GD1865'

GD1865'THE STATION IS A 3-D MARK WITH STAINLESS STEEL ROD DRIVEN 11.6

GD1865'METERS (38 FT). THE LOGO CAP IS STAMPED---GPS 17 1987---, AND A
 GD1865'STEEL SPIKE IS EMBEDDED IN THE CONCRETE. LOCATED 21.3 METERS (70
 GD1865'FT) EAST-SOUTHEAST FROM THE EDGE OF THE PAVEMENT, AND 0.3 METERS (1
 GD1865'FT) ABOVE SAME, 1.8 METERS (6 FT) WEST-SOUTHWEST FROM A FIBERGLASS
 GD1865'WITNESS POST AT THE EAST RIGHT-OF-WAY FENCE, 48.8 METERS (160 FT)
 GD1865'NORTHEAST FROM THE CENTER OF A CONCRETE CULVERT HEADWALL.

GD1865

GD1865 STATION RECOVERY (1987)

GD1865

GD1865'RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1987

GD1865'RECOVERED IN GOOD CONDITION.

GD1865

GD1865 STATION RECOVERY (1989)

GD1865

GD1865'RECOVERED 1989

GD1865'RECOVERED IN GOOD CONDITION.

GD1865

GD1865 STATION RECOVERY (1991)

GD1865

GD1865'RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1991

GD1865'THE STATION IS LOCATED ABOUT 3.2 KM (2.00 MI) NORTHWEST OF OBION, AND
 GD1865'ON THE EAST RIGHT-OF-WAY OF U.S. HIGHWAY 51 (ALSO KNOWN AS INTERSTATE
 GD1865'HIGHWAY 155). OWNERSHIP--TENNESSEE DEPARTMENT OF TRANSPORTATION, 505
 GD1865'DEADERICK STREET, NASHVILLE, TN 37219, PHONE 901-627-2503.

GD1865'TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 51 AND STATE
 GD1865'HIGHWAY 183, ABOUT 1.6 KM (1.00 MI) WEST OF OBION, GO NORTHEAST ON
 GD1865'U.S. HIGHWAY 51 FOR 2.4 KM (1.50 MI) TO A HIGHWAY OVERPASS. CONTINUE
 GD1865'NORTHEAST ON U.S. HIGHWAY 51 FOR 0.3 KM (0.20 MI) TO THE STATION ON
 GD1865'THE RIGHT.

GD1865'THE STATION IS LOCATED 48.8 M (160.1 FT) NORTHEAST FROM THE CENTER OF
 GD1865'A CONCRETE CULVERT, 21.3 M (69.9 FT) SOUTHEAST FROM THE SOUTHEAST
 GD1865'EDGE OF THE PAVEMENT OF THE NORTHEAST BOUND LANES OF U.S. HIGHWAY 51
 GD1865'AND 1.8 M (5.9 FT) WEST FROM A WITNESS POST. NOTE--ACCESS TO DATUM
 GD1865'POINT IS HAD THROUGH A 5-INCH LOGO CAP.

GD1865'DESCRIBED BY E.J. HANSMANN

GD1865

GD1865 STATION RECOVERY (1993)

GD1865

GD1865'RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1993

GD1865'THE STATION IS LOCATED ABOUT 3.2 KM (2.00 MI) NORTHWEST OF OBION, AND
 GD1865'ON THE EAST RIGHT-OF-WAY OF U.S. HIGHWAY 51 (ALSO KNOWN AS INTERSTATE
 GD1865'HIGHWAY 155). OWNERSHIP--TENNESSEE DEPARTMENT OF TRANSPORTATION, 505
 GD1865'DEADERICK STREET, NASHVILLE, TN 37219, PHONE 901-627-2503.

GD1865'TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 51 AND STATE
 GD1865'HIGHWAY 183, ABOUT 1.6 KM (1.00 MI) WEST OF OBION, GO NORTHEAST ON
 GD1865'U.S. HIGHWAY 51 FOR 2.4 KM (1.50 MI) TO A HIGHWAY OVERPASS, CONTINUE
 GD1865'NORTHEAST ON U.S. HIGHWAY 51 FOR 0.3 KM (0.20 MI) TO THE STATION ON
 GD1865'THE RIGHT.

GD1865'THE STATION IS LOCATED 48.8 M (160.1 FT) NORTHEAST FROM THE CENTER OF
 GD1865'A CONCRETE CULVERT, 21.3 M (69.9 FT) SOUTHEAST FROM THE SOUTHEAST
 GD1865'EDGE OF THE PAVEMENT OF THE NORTHEASTBOUND LANES OF U.S. HIGHWAY 51
 GD1865'AND 1.8 M (5.9 FT) WEST FROM A WITNESS POST. NOTE--ACCESS TO DATUM
 GD1865'POINT IS HAD THROUGH A 5-INCH LOGO CAP.

GD1865'DESCRIBED BY E.J. HANSMANN

GD1865

GD1865 STATION RECOVERY (1994)
 GD1865
 GD1865'RECOVERED 1994
 GD1865'RECOVERED IN GOOD CONDITION.
 GD1865
 GD1865 STATION RECOVERY (1995)
 GD1865
 GD1865'RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1995 (CFS)
 GD1865'THE STATION IS LOCATED ABOUT 20.9 KM (13.00 MI) SOUTHWEST OF UNION
 GD1865'CITY, 3.2 KM (2.00 MI) NORTHWEST OF OBION, ON THE EAST RIGHT-OF-WAY OF
 GD1865'U.S. HIGHWAY 51 (ALSO KNOWN AS INTERSTATE HIGHWAY 155).
 GD1865'OWNERSHIP--HIGHWAY RIGHT-OF-WAY. TO REACH THE STATION FROM THE
 GD1865'JUNCTION OF STATE ROUTE 183 AND U.S. HIGHWAY 51 JUST WEST OF OBION, GO
 GD1865'NORTH FOR 2.4 KM (1.50 MI) ON HIGHWAY 51 TO AN OVERPASS BRIDGE.
 GD1865'CONTINUE STRAIGHT AHEAD AND GO NORTH FOR 0.3 KM (0.20 MI) ON HIGHWAY
 GD1865'51 TO STATION ON THE RIGHT. LOCATED 48.8 M (160.1 FT) NORTHEAST FROM
 GD1865'THE CENTER OF A CONCRETE CULVERT HEADWALL, 23.3 M (76.4 FT)
 GD1865'EAST-SOUTHEAST FROM THE EDGE OF THE PAVEMENT, 1.8 M (5.9 FT)
 GD1865'WEST-NORTHWEST FROM A FIBERGLASS WITNESS POST AT THE EAST RIGHT-OF-WAY
 GD1865'FENCE AND 0.3 M (1.0 FT) ABOVE THE HIGHWAY. A STEEL SPIKE IS EMBEDDED
 GD1865'IN THE CONCRETE.
 GD1865
 GD1865 STATION RECOVERY (1997)
 GD1865
 GD1865'RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1997 (CSM)
 GD1865'RECOVERED AS DESCRIBED. R.G. HAYES NOTE--THIS STATION IS A NEW
 GD1865'MADRID FAULT SEISMIC ZONE STATION.
 GD1865
 GD1865 STATION RECOVERY (1998)
 GD1865
 GD1865'RECOVERY NOTE BY TN DEPT OF TRANSP 1998 (GSP)
 GD1865'THE TEMPORARY BENCH MARK WAS LOCATED ABOUT 6.1 MI (9.8 KM)
 GD1865'EAST-SOUTHEAST OF HORNBEAK, 5.6 MI (9.0 KM) NORTH OF TRIMBLE AND 1.8
 GD1865'MI (2.9 KM) NORTH-NORTHWEST OF OBION, TN.
 GD1865
 GD1865 STATION RECOVERY (2001)
 GD1865
 GD1865'RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 2001 (DAC)
 GD1865'RECOVERED IN GOOD CONDITION.
 GD1865
 GD1865 STATION RECOVERY (2002)
 GD1865
 GD1865'RECOVERY NOTE BY EMC INCORPORATED 2002 (WB)
 GD1865'FOUND AS DESCRIBED.
 GD1865'
 GD1865
 GD1865 STATION RECOVERY (2003)
 GD1865
 GD1865'RECOVERY NOTE BY TN DEPT OF TRANSP 2003
 GD1865'RECOVERED AS DESCRIBED.
 GD1865
 GD1865 STATION RECOVERY (2008)
 GD1865
 GD1865'RECOVERY NOTE BY TENNESSEE DEPT. OF 2008 (JTZ)
 GD1865'RECOVERED AS DESCRIBED

GD1865 '
GD1865
GD1865 STATION RECOVERY (2010)
GD1865
GD1865'RECOVERY NOTE BY GEOCACHING 2010 (ACM)
GD1865'RECOVERED IN GOOD CONDITION.

*** retrieval complete.
Elapsed Time = 00:00:01

The NGS Data Sheet

See file [dsdata.pdf](#) for more information about the datasheet.

PROGRAM = datasheet95, VERSION = 8.12.5.11

Starting Datasheet Retrieval...

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1      National Geodetic Survey,      Retrieval Date = JANUARY 22, 2021
FE2744 *****
FE2744 CBN          -   This is a Cooperative Base Network Control Station.
FE2744 DESIGNATION -   GPS 32
FE2744 PID          -   FE2744
FE2744 STATE/COUNTY-   TN/GIBSON
FE2744 COUNTRY      -   US
FE2744 USGS QUAD    -   TRENTON (2019)
FE2744
FE2744                      *CURRENT SURVEY CONTROL
FE2744
FE2744* NAD 83(2011) POSITION- 35 55 40.36069(N) 088 59 52.36070(W) ADJUSTED
FE2744* NAD 83(2011) ELLIP HT-   69.330 (meters)                (06/27/12) ADJUSTED
FE2744* NAD 83(2011) EPOCH   - 2010.00
FE2744* NAVD 88 ORTHO HEIGHT -   97.59 (meters)                320.2 (feet) N HEIGHT
FE2744
FE2744 GEOID HEIGHT   -   -28.252 (meters)                        GEOID18
FE2744 NAD 83(2011) X   -   90,433.588 (meters)                    COMP
FE2744 NAD 83(2011) Y   -  -5,169,963.740 (meters)                COMP
FE2744 NAD 83(2011) Z   -   3,721,755.206 (meters)                COMP
FE2744 LAPLACE CORR    -   -0.58 (seconds)                        DEFLEC18
FE2744 DYNAMIC HEIGHT  -   97.51 (meters)                319.9 (feet) COMP
FE2744 MODELED GRAVITY  -   979,782.5 (mgal)                    NAVD 88
FE2744
FE2744 VERT ORDER      -   THIRD
FE2744
FE2744 Network accuracy estimates per FGDC Geospatial Positioning Accuracy
FE2744 Standards:
FE2744          FGDC (95% conf, cm)      Standard deviation (cm)      CorrNE
FE2744          Horiz Ellip              SD_N   SD_E   SD_h          (unitless)
FE2744 -----
FE2744 NETWORK    0.49   1.16              0.21   0.19   0.59          0.08112094
FE2744 -----
FE2744 Click here for local accuracies and other accuracy information.
FE2744
FE2744
FE2744.The horizontal coordinates were established by GPS observations
FE2744.and adjusted by the National Geodetic Survey in June 2012.
FE2744
FE2744.NAD 83(2011) refers to NAD 83 coordinates where the reference frame has
FE2744.been affixed to the stable North American tectonic plate. See
FE2744.NA2011 for more information.
FE2744
FE2744.The horizontal coordinates are valid at the epoch date displayed above
FE2744.which is a decimal equivalence of Year/Month/Day.
FE2744

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FE2744 NGVD 29 97.63 (m) 320.3 (f) LEVELING 3

FE2744

FE2744.Superseded values are not recommended for survey control.

FE2744

FE2744.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.

FE2744.See file [dsdata.pdf](#) to determine how the superseded data were derived.

FE2744

FE2744_MARKER: I = METAL ROD

FE2744_SETTING: 59 = STAINLESS STEEL ROD IN SLEEVE (10 FT.+)

FE2744_STAMPING: GPS 32 1987

FE2744_MARK LOGO: NGS

FE2744_PROJECTION: FLUSH

FE2744_MAGNETIC: S = STEEL SPIKE IMBEDDED IN MONUMENT

FE2744_STABILITY: B = PROBABLY HOLD POSITION/ELEVATION WELL

FE2744_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR

FE2744+SATELLITE: SATELLITE OBSERVATIONS - November 25, 2008

FE2744_ROD/PIPE-DEPTH: 12.8 meters

FE2744_SLEEVE-DEPTH : 0.90 meters

FE2744

FE2744	HISTORY	- Date	Condition	Report By
FE2744	HISTORY	- 1987	MONUMENTED	NGS
FE2744	HISTORY	- 19890711	GOOD	
FE2744	HISTORY	- 19950620	GOOD	NGS
FE2744	HISTORY	- 1999	GOOD	LOWE
FE2744	HISTORY	- 20031010	GOOD	TNDT
FE2744	HISTORY	- 20081125	GOOD	TNDOT

FE2744

FE2744 STATION DESCRIPTION

FE2744

FE2744'DESCRIBED BY NATIONAL GEODETIC SURVEY 1987 (DAC)

FE2744'THE STATION IS LOCATED ABOUT 38.6 KM (24 MI)

FE2744'NORTH-NORTHWEST OF JACKSON,

FE2744'8 KM (5 MI) SOUTHWEST OF TRENTON, ON THE NORTHWEST RIGHT-OF-WAY OF

FE2744'STATE ROUTE 54.

FE2744'OWNERSHIP--STATE RIGHT-OF-WAY.

FE2744'

FE2744'TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 45W BUSINESS

FE2744'ROUTE AND STATE ROUTE 54 AT THE SOUTH EDGE OF TRENTON GO WEST AND

FE2744'SOUTHWEST FOR 7.2 KM (4.5 MI) ON STATE ROUTE 54 TO THE STATION ON

FE2744'THE RIGHT, 0.2 KM (0.15 MI) SOUTHWEST FROM THE FOLLIS CHAPEL AND

FE2744'CEMETERY.

FE2744'

FE2744'THE STATION IS A 3-D MARK WITH STAINLESS STEEL ROD DRIVEN 12.8

FE2744'METERS (42 FT). THE LOGO CAP IS STAMPED---GPS 32 1987---, AND A

FE2744'STEEL SPIKE IS EMBEDDED IN THE CONCRETE. LOCATED

FE2744'100.6 METERS (330 FT) NORTHEAST FROM THE CENTER OF A BRIDGE OVER A

FE2744'SMALL STREAM,

FE2744'17.1 METERS (56 FT) NORTHWEST FROM THE CENTER OF THE ROAD AND LEVEL

FE2744'WITH SAME,

FE2744'1.2 METERS (4 FT) SOUTHEAST FROM THE RIGHT-OF-WAY FENCE,

FE2744'0.2 METERS (0.8 FT) SOUTHWEST FROM A FIBERGLASS WITNESS POST.

FE2744

FE2744 STATION RECOVERY (1989)

FE2744

FE2744'RECOVERED 1989

FE2744'RECOVERED IN GOOD CONDITION.

FE2744

FE2744

STATION RECOVERY (1995)

FE2744

FE2744'RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1995 (CFS)

FE2744'THE STATION IS LOCATED ABOUT 38.7 KM (24.05 MI) NORTH-NORTHWEST OF

FE2744'JACKSON, 8 KM (4.95 MI) SOUTHWEST OF TRENTON, ON THE NORTHWEST

FE2744'RIGHT-OF-WAY OF STATE ROUTE 54. OWNERSHIP--STATE DEPARTMENT OF

FE2744'TRANSPORTATION. TO REACH THE STATION FROM THE GIBSON COUNTY

FE2744'COURTHOUSE IN TRENTON, GO SOUTH ON U.S. HIGHWAY 45W BUSINESS ROUTE

FE2744'(COLLEGE ST.) 1.8 KM (1.10 MI) TO THE JUNCTION OF STATE ROUTE 54 AT

FE2744'THE SOUTH EDGE OF TRENTON. TURN RIGHT AND GO WEST AND SOUTHWEST FOR

FE2744'7.2 KM (4.45 MI) ON STATE ROUTE 54 TO THE STATION ON THE RIGHT, 0.2 KM

FE2744'(0.10 MI) SOUTHWEST FROM THE FOLLIS CHAPEL AND CEMETERY. LOCATED

FE2744'100.6 M (330.1 FT) NORTHEAST FROM THE CENTER OF A BRIDGE OVER A SMALL

FE2744'STREAM, 17.1 M (56.1 FT) NORTHWEST FROM THE CENTER OF THE ROAD AND

FE2744'LEVEL WITH SAME, 1.4 M (4.6 FT) SOUTHEAST FROM THE RIGHT-OF-WAY FENCE,

FE2744'30.2 M (99.1 FT) NORTHEAST FROM A UTILITY POLE AND 0.2 M (0.7 FT)

FE2744'SOUTHWEST FROM A FIBERGLASS WITNESS POST. A STEEL SPIKE IS EMBEDDED

FE2744'IN THE CONCRETE.

FE2744

FE2744

STATION RECOVERY (1999)

FE2744

FE2744'RECOVERY NOTE BY LOWE ENGINEERS 1999

FE2744'RECOVERED 1999

FE2744'RECOVERED IN GOOD CONDITION.

FE2744

FE2744

STATION RECOVERY (2003)

FE2744

FE2744'RECOVERY NOTE BY TN DEPT OF TRANSP 2003

FE2744'RECOVERED AS DESCRIBED.

FE2744

FE2744

STATION RECOVERY (2008)

FE2744

FE2744'RECOVERY NOTE BY TENNESSEE DEPT. OF 2008 (JTZ)

FE2744'DESCRIPTION IS ADEQUATE

FE2744'128.7 M (0.08) MILES NORTHEAST FROM CENTERLINE OF GRAVEL DRIVE TO

FE2744'3390 TERRY ROAD

*** retrieval complete.

Elapsed Time = 00:00:02

The NGS Data Sheet

See file [dsdata.pdf](#) for more information about the datasheet.

PROGRAM = datasheet95, VERSION = 8.12.5.11

Starting Datasheet Retrieval...

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1      National Geodetic Survey,      Retrieval Date = JANUARY 22, 2021
FC1927 *****
FC1927 FBN          -   This is a Federal Base Network Control Station.
FC1927 DESIGNATION -   GPS 37
FC1927 PID          -   FC1927
FC1927 STATE/COUNTY-   TN/BLEDSOE
FC1927 COUNTRY     -   US
FC1927 USGS QUAD   -   PIKEVILLE (2019)
FC1927
FC1927                      *CURRENT SURVEY CONTROL
FC1927
FC1927* NAD 83(2011) POSITION- 35 34 56.79117(N) 085 13 04.09220(W) ADJUSTED
FC1927* NAD 83(2011) ELLIP HT- 222.693 (meters) (06/27/12) ADJUSTED
FC1927* NAD 83(2011) EPOCH   - 2010.00
FC1927* NAVD 88 ORTHO HEIGHT - 251.90 (meters) 826.4 (feet) N HEIGHT
FC1927
FC1927 GEOID HEIGHT   -      -29.200 (meters) GEOID18
FC1927 NAD 83(2011) X   - 432,954.019 (meters) COMP
FC1927 NAD 83(2011) Y   - -5,175,196.516 (meters) COMP
FC1927 NAD 83(2011) Z   - 3,690,740.433 (meters) COMP
FC1927 LAPLACE CORR    -      -4.84 (seconds) DEFLEC18
FC1927 DYNAMIC HEIGHT  -      251.66 (meters) 825.7 (feet) COMP
FC1927 MODELED GRAVITY - 979,677.6 (mgal) NAVD 88
FC1927
FC1927 VERT ORDER      -   THIRD
FC1927
FC1927 Network accuracy estimates per FGDC Geospatial Positioning Accuracy
FC1927 Standards:
FC1927          FGDC (95% conf, cm)          Standard deviation (cm)          CorrNE
FC1927          Horiz Ellip                SD_N   SD_E   SD_h          (unitless)
FC1927 -----
FC1927 NETWORK    0.44   1.04                0.13   0.21   0.53          0.09144901
FC1927 -----
FC1927 Click here for local accuracies and other accuracy information.
FC1927
FC1927
FC1927.The horizontal coordinates were established by GPS observations
FC1927.and adjusted by the National Geodetic Survey in June 2012.
FC1927
FC1927.NAD 83(2011) refers to NAD 83 coordinates where the reference frame has
FC1927.been affixed to the stable North American tectonic plate. See
FC1927.NA2011 for more information.
FC1927
FC1927.The horizontal coordinates are valid at the epoch date displayed above
FC1927.which is a decimal equivalence of Year/Month/Day.
FC1927

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FC1927.The orthometric height was determined by differential leveling
FC1927.and adjusted by the NATIONAL GEODETIC SURVEY in August 1996.

FC1927

FC1927.The height was determined by precise leveling from only one NSRS
FC1927.bench mark. This was not adequate "tie leveling" to NSRS and was
FC1927.allowed ONLY to validate the GPS-derived height.

FC1927

FC1927.Significant digits in the geoid height do not necessarily reflect accuracy.
FC1927.GEOID18 height accuracy estimate available [here](#).

FC1927

FC1927.Click [photographs](#) - Photos may exist for this station.

FC1927

FC1927.The X, Y, and Z were computed from the position and the ellipsoidal ht.

FC1927

FC1927.The Laplace correction was computed from DEFLEC18 derived deflections.

FC1927

FC1927.The ellipsoidal height was determined by GPS observations
FC1927.and is referenced to NAD 83.

FC1927

FC1927.The dynamic height is computed by dividing the NAVD 88
FC1927.geopotential number by the normal gravity value computed on the
FC1927.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
FC1927.degrees latitude ($g = 980.6199$ gals.).

FC1927

FC1927.The modeled gravity was interpolated from observed gravity values.

FC1927

FC1927. The following values were computed from the NAD 83(2011) position.

FC1927

FC1927;		North	East	Units	Scale	Factor	Converg.
FC1927;SPC TN	-	138,870.812	670,891.902	MT	0.99995799	+0 27	28.5
FC1927;SPC TN	-	455,611.99	2,201,084.52	sFT	0.99995799	+0 27	28.5
FC1927;UTM 16	-	3,939,098.358	661,476.094	MT	0.99992132	+1 02	14.1

FC1927

FC1927!
FC1927!SPC TN

FC1927!UTM 16

FC1927!SPC TN

FC1927!UTM 16

FC1927

FC1927_U.S. NATIONAL GRID SPATIAL ADDRESS: 16SFE6147639098(NAD 83)

FC1927

FC1927

SUPERSEDED SURVEY CONTROL

FC1927

FC1927	NAD 83(2007)-	35 34 56.79123(N)		085 13 04.09284(W)	AD(2002.00)	A
FC1927	ELLIP H (10/16/11)	222.656 (m)			GP(2002.00)	3 2
FC1927	NAD 83(2007)-	35 34 56.79099(N)		085 13 04.09278(W)	AD(2002.00)	0
FC1927	ELLIP H (02/10/07)	222.680 (m)			GP(2002.00)	
FC1927	ELLIP H (08/03/04)	222.629 (m)			GP()	4 1
FC1927	NAD 83(1986)-	35 34 56.79604(N)		085 13 04.09937(W)	AD()	1
FC1927	NAD 83(1990)-	35 34 56.79049(N)		085 13 04.09281(W)	AD()	A
FC1927	NAD 83(1990)-	35 34 56.79049(N)		085 13 04.09280(W)	AD()	A
FC1927	NAD 27	- 35 34 56.55478(N)		085 13 04.22981(W)	AD()	3
FC1927	ELLIP H (09/07/90)	222.754 (m)			GP()	4 1
FC1927	NAVD 88 (02/01/05)	251.7 (m)	UNKNOWN model used		GPS OBS	
FC1927	NAVD 88 (08/03/04)	251.7 (m)	GEOID03 model used		GPS OBS	
FC1927	NAVD 88	251.90 (m)		826.4 (f)	LEVELING	3

FC1927	NAVD	88	(09/11/96)	251.7	(m)	UNKNOWN model used	GPS OBS	
FC1927	NAVD	88	(09/11/96)	251.7	(m)	UNKNOWN model used	GPS OBS	
FC1927	NAVD	88		251.90	(m)		826.4 (f) LEVELING	3
FC1927	NAVD	88	(03/09/95)	251.8	(m)	UNKNOWN model used	GPS OBS	
FC1927	NAVD	88		251.90	(m)		826.4 (f) LEVELING	3
FC1927	NGVD	29	(??/??/??)	251.95	(m)		826.6 (f) N HEIGHT	3
FC1927	NGVD	29		251.95	(m)		826.6 (f) LEVELING	3

FC1927

FC1927.Superseded values are not recommended for survey control.

FC1927

FC1927.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.

FC1927.See file [dsdata.pdf](#) to determine how the superseded data were derived.

FC1927

FC1927_MARKER: DH = HORIZONTAL CONTROL DISK

FC1927_SETTING: 66 = SET IN ROCK OUTCROP

FC1927_STAMPING: GPS 37 1987

FC1927_MARK LOGO: NGS

FC1927_MAGNETIC: N = NO MAGNETIC MATERIAL

FC1927_STABILITY: A = MOST RELIABLE AND EXPECTED TO HOLD

FC1927+STABILITY: POSITION/ELEVATION WELL

FC1927_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR

FC1927+SATELLITE: SATELLITE OBSERVATIONS - November 14, 2020

FC1927

FC1927	HISTORY	- Date	Condition	Report By
FC1927	HISTORY	- 1987	MONUMENTED	NGS
FC1927	HISTORY	- 1987	GOOD	NGS
FC1927	HISTORY	- 1987	GOOD	NGS
FC1927	HISTORY	- 19890104	GOOD	
FC1927	HISTORY	- 19900322	GOOD	NGS
FC1927	HISTORY	- 19920113	GOOD	NGS
FC1927	HISTORY	- 19931029	GOOD	NGS
FC1927	HISTORY	- 19940314	GOOD	
FC1927	HISTORY	- 19940408	GOOD	NGS
FC1927	HISTORY	- 19950330	GOOD	NGS
FC1927	HISTORY	- 19950609	GOOD	NGS
FC1927	HISTORY	- 20031010	GOOD	TNDT
FC1927	HISTORY	- 20081112	GOOD	TNDOT
FC1927	HISTORY	- 20201114	GOOD	USPSQD

FC1927

STATION DESCRIPTION

FC1927

FC1927'DESCRIBED BY NATIONAL GEODETIC SURVEY 1987 (DAC)

FC1927'THE STATION IS LOCATED ABOUT 3.2 KM (2 MI) SOUTHWEST OF PIKEVILLE,
FC1927'IN A BEDROCK OUTCROP AT THE EAST EDGE OF U.S. HIGHWAY 127.

FC1927'OWNERSHIP--STATE RIGHT-OF-WAY.

FC1927'

FC1927'TO REACH THE STATION FROM THE JUNCTION OF STATE ROUTE 30 AND U.S.

FC1927'HIGHWAY 127 AT THE SOUTH EDGE OF PIKEVILLE GO

FC1927'SOUTH FOR 2.7 KM (1.7 MI) ON U.S. HIGHWAY 127 TO THE BLEDSOE COUNTY

FC1927'HIGH SCHOOL ENTRANCE DRIVE ON THE RIGHT.

FC1927'CONTINUE STRAIGHT AHEAD AND GO SOUTH FOR 0.24 KM (0.15 MI) ON U.S.

FC1927'HIGHWAY 127 TO THE STATION ON THE LEFT.

FC1927'

FC1927'THE STATION IS A STANDARD NGS DISK

FC1927'STAMPED---GPS 37 1987---

FC1927'SET INTO A DRILL HOLE IN BEDROCK OUTCROP MEASURING 1.2 METERS (4
 FC1927'FT) BY 0.4 METERS (1.3 FT) PROJECTING 0.09 METERS (0.3 FT) ABOVE
 FC1927'GROUND. LOCATED
 FC1927'38.4 METERS (126 FT) WEST-SOUTHWEST FROM A UTILITY POLE NUMBERED 23
 FC1927'30 WITH ONE TRANSFORMER AND A FLASHING SCHOOL SPEED LIMIT SIGN,
 FC1927'15.09 METERS (49.5 FT) SOUTHEAST FROM THE CENTER OF U.S. HIGHWAY
 FC1927'127 AND 0.3 METERS (1 FT) ABOVE SAME,
 FC1927'7.01 METERS (23 FT) NORTHEAST FROM A GRAVEL DRIVE LEADING INTO A
 FC1927'PASTURE,
 FC1927'0.64 METERS (2.1 FT) NORTHWEST FROM A FIBERGLASS WITNESS POST SET
 FC1927'AT THE WHITE BOARD RIGHT-OF-WAY FENCE.

FC1927

FC1927 STATION RECOVERY (1987)

FC1927

FC1927'RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1987 (DCF)
 FC1927'THE STATION IS LOCATED ABOUT 2.0 MILES SOUTHWEST OF
 FC1927'PIKEVILLE ALONG U.S. HIGHWAY 127 IN BEDROCK ON EAST SIDE
 FC1927'OF HWY.

FC1927'OWNERSHIP -- HIGHWAY RIGHT-OF-WAY

FC1927'TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY
 FC1927'127 AND STATE HIGHWAY 30 AT THE SOUTH EDGE OF PIKEVILLE,
 FC1927'GO SOUTH ON HWY. 127 FOR 1.7 MILES TO THE BLEDSOE COUNTY
 FC1927'HIGH SCHOOL ENTRANCE ON THE RIGHT. CONTINUE SOUTH ON
 FC1927'HWY. 127 FOR 0.15 MILE TO THE MARK ON LEFT, IN BEDROCK.
 FC1927'THE STATION IS A STANDARD NGS DISK STAMPED--- GPS
 FC1927'37 1987 --- SET INTO ROCK OUTCROP SET IN A DRILL IN A
 FC1927'4X1.3 FEET BEDROCK, PROJECTING 4 INCHS.

FC1927'LOCATED 126.0 WEST SOUTHWEST FROM A UTILITY POLE NUMBER
 FC1927'23 30 WITH TRANSFORMER, SCHOOL FLASHING SPEED SIGN
 FC1927'ATTACHED, 49.5 SOUTHEAST FROM APPROX. CENTER OF HWY 127,
 FC1927'23.0 FEET NORTH NORTHEAST FROM A GRAVEL DRIVE AND 2.0
 FC1927'FEET NORTHWEST FROM A FIBERGLASS WITNESS POST SET NEAR
 FC1927'N-S BOARD FENCE.

FC1927'THE UNDERGROUND MARK IS NONE.

FC1927

FC1927 STATION RECOVERY (1987)

FC1927

FC1927'RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1987
 FC1927'RECOVERED IN GOOD CONDITION.

FC1927

FC1927 STATION RECOVERY (1989)

FC1927

FC1927'RECOVERED 1989
 FC1927'RECOVERED IN GOOD CONDITION.

FC1927

FC1927 STATION RECOVERY (1990)

FC1927

FC1927'RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1990
 FC1927'RECOVERED IN GOOD CONDITION.

FC1927

FC1927 STATION RECOVERY (1992)

FC1927

FC1927'RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1992
 FC1927'THE STATION IS LOCATED ABOUT 3.2 KM (2.0 MI) SOUTHWEST OF PIKEVILLE,
 FC1927'IN A BEDROCK OUTCROP AT THE EAST EDGE OF U.S.HIGHWAY 127.

FC1927'OWNERSHIP--STATE RIGHT-OF-WAY.

FC1927'TO REACH THE STATION FROM THE JUNCTION OF STATE ROUTE 30 AND U.S.
 FC1927'HIGHWAY 127 AT THE SOUTH EDGE OF PIKEVILLE GO SOUTH ON U.S. HIGHWAY
 FC1927'127 FOR 2.7 KM (1.7 MI) TO THE BLEDSOE COUNTY HIGH SCHOOL ENTRANCE
 FC1927'DRIVE ON THE RIGHT. CONTINUE STRAIGHT AHEAD AND GO SOUTH ON U.S.
 FC1927'HIGHWAY 127 FOR 0.24 KM (0.15 MI) TO THE STATION ON THE LEFT.
 FC1927'THE STATION IS LOCATED 38.4 M (126.0 FT) WEST-SOUTHWEST FROM A UTILITY
 FC1927'POLE NUMBERED 23 WITH ONE TRANSFORMER, 15.09 M (49.51 FT) SOUTHEAST
 FC1927'FROM THE CENTER OF U.S. HIGHWAY 127 AND 0.3 M (1.0 FT) ABOVE THIS
 FC1927'ROAD, 7.01 M (23.00 FT) NORTHEAST FROM A GRAVEL DRIVE LEADING INTO A
 FC1927'PASTURE AND 0.64 M (2.10 FT) NORTHWEST FROM A FIBERGLASS WITNESS POST
 FC1927'SET AT THE WHITE BOARD RIGHT-OF-WAY FENCE.

FC1927'NOTE--THE STATION IS SET INTO A DRILL HOLE IN A BEDROCK OUTCROP THAT
 FC1927'MEASURES 1.2 M (3.9 FT) X 0.4 M (1.3 FT) AND PROJECTS 0.09 M
 FC1927'(0.30 FT) ABOVE GROUND.

FC1927

FC1927 STATION RECOVERY (1993)

FC1927

FC1927'RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1993

FC1927'THE STATION IS LOCATED ABOUT 3.2 KM (2.00 MI) SOUTHWEST OF PIKEVILLE,
 FC1927'IN A ROCK OUTCROP AT THE EAST EDGE OF U.S. HIGHWAY 127.

FC1927'OWNERSHIP--STATE HIGHWAY RIGHT-OF-WAY.

FC1927'TO REACH THE STATION FROM THE JUNCTION OF STATE HIGHWAY 30 AND U.S.
 FC1927'HIGHWAY 127 AT THE SOUTH EDGE OF PIKEVILLE, GO SOUTH ON HIGHWAY 127
 FC1927'FOR 2.7 KM (1.65 MI) TO THE BLEDSOE COUNTY HIGH SCHOOL ENTRANCE DRIVE
 FC1927'ON THE RIGHT, CONTINUE SOUTH ON HIGHWAY 127 FOR 0.24 KM (0.15 MI) TO
 FC1927'STATION ON THE LEFT.

FC1927'THE STATION IS SET IN A DRILLHOLE IN ROCK OUTCROP MEASURING 1.2 M
 FC1927'(3.9 FT) BY 0.4 M (1.3 FT) PROJECTING 0.09 M (0.30 FT) ABOVE GROUND,
 FC1927'AND ABOUT 0.3 M (1.0 FT) ABOVE THE HIGHWAY. LOCATED 36.6 M
 FC1927'(120.1 FT) WEST-SOUTHWEST FROM UTILITY POLE NUMBER 23 30 WITH ONE
 FC1927'TRANSFORMER, 15.09 M (49.51 FT) SOUTHEAST FROM THE CENTER OF THE
 FC1927'HIGHWAY, 6.7 M (22.0 FT) NORTHEAST FROM THE CENTER OF A GRAVEL DRIVE
 FC1927'LEADING INTO A PASTURE WITH A BARN AND 0.64 M (2.10 FT) NORTHWEST
 FC1927'FROM A FIBERGLASS WITNESS POST SET AT A WHITE BOARD RIGHT-OF-WAY
 FC1927'FENCE.

FC1927

FC1927 STATION RECOVERY (1994)

FC1927

FC1927'RECOVERED 1994

FC1927'RECOVERED IN GOOD CONDITION.

FC1927

FC1927 STATION RECOVERY (1994)

FC1927

FC1927'RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1994 (CFS)

FC1927'RECOVERED AS DESCRIBED IN 1993.

FC1927

FC1927 STATION RECOVERY (1995)

FC1927

FC1927'RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1995 (CFS)

FC1927'RECOVERED AS DESCRIBED.

FC1927

FC1927 STATION RECOVERY (1995)

FC1927

FC1927'RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1995 (CFS)

FC1927'RECOVERED AS DESCRIBED.
FC1927
FC1927 STATION RECOVERY (2003)
FC1927
FC1927'RECOVERY NOTE BY TN DEPT OF TRANSP 2003
FC1927'RECOVERED AS DESCRIBED.
FC1927
FC1927 STATION RECOVERY (2008)
FC1927
FC1927'RECOVERY NOTE BY TENNESSEE DEPT. OF 2008 (JTZ)
FC1927'RECOVERED AS DESCRIBED
FC1927
FC1927 STATION RECOVERY (2020)
FC1927
FC1927'RECOVERY NOTE BY US POWER SQUADRON 2020 (DLG)
FC1927'RECOVERED IN GOOD CONDITION.

*** retrieval complete.
Elapsed Time = 00:00:02

The NGS Data Sheet

See file [dsdata.pdf](#) for more information about the datasheet.

PROGRAM = datasheet95, VERSION = 8.12.5.11

Starting Datasheet Retrieval...

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1      National Geodetic Survey,      Retrieval Date = JANUARY 22, 2021
FC1928 *****
FC1928 CBN          -   This is a Cooperative Base Network Control Station.
FC1928 DESIGNATION -   GPS 38
FC1928 PID          -   FC1928
FC1928 STATE/COUNTY-   TN/WARREN
FC1928 COUNTRY      -   US
FC1928 USGS QUAD    -   IRVING COLLEGE (2019)
FC1928
FC1928                      *CURRENT SURVEY CONTROL
FC1928
FC1928* NAD 83(2011) POSITION- 35 36 22.02468(N) 085 42 19.11778(W) ADJUSTED
FC1928* NAD 83(2011) ELLIP HT- 242.666 (meters) (06/27/12) ADJUSTED
FC1928* NAD 83(2011) EPOCH   - 2010.00
FC1928* NAVD 88 ORTHO HEIGHT - 271.52 (meters) 890.8 (feet) LEVELING
FC1928
FC1928 GEOID HEIGHT   -      -28.876 (meters) GEOID18
FC1928 NAD 83(2011) X   - 388,791.894 (meters) COMP
FC1928 NAD 83(2011) Y   - -5,177,184.450 (meters) COMP
FC1928 NAD 83(2011) Z   - 3,692,888.211 (meters) COMP
FC1928 LAPLACE CORR    -      1.26 (seconds) DEFLEC18
FC1928 VERT ORDER      -   THIRD
FC1928
FC1928 Network accuracy estimates per FGDC Geospatial Positioning Accuracy
FC1928 Standards:
FC1928          FGDC (95% conf, cm)      Standard deviation (cm)      CorrNE
FC1928          Horiz Ellip              SD_N   SD_E   SD_h      (unitless)
FC1928 -----
FC1928 NETWORK      0.62   1.39              0.28   0.22   0.71      -0.12714219
FC1928 -----
FC1928 Click here for local accuracies and other accuracy information.
FC1928
FC1928
FC1928.The horizontal coordinates were established by GPS observations
FC1928.and adjusted by the National Geodetic Survey in June 2012.
FC1928
FC1928.NAD 83(2011) refers to NAD 83 coordinates where the reference frame has
FC1928.been affixed to the stable North American tectonic plate. See
FC1928.NA2011 for more information.
FC1928
FC1928.The horizontal coordinates are valid at the epoch date displayed above
FC1928.which is a decimal equivalence of Year/Month/Day.
FC1928
FC1928.The orthometric height was determined by differential leveling.
FC1928.The vertical network tie was performed by a horz. field party for horz.
FC1928.obs reductions. Reset procedures were used to establish the elevation.

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FC1928+SATELLITE: SATELLITE OBSERVATIONS - November 12, 2008

FC1928_ROD/PIPE-DEPTH: 12.2 meters

FC1928_SLEEVE-DEPTH : 0.90 meters

FC1928

FC1928	HISTORY	- Date	Condition	Report By
FC1928	HISTORY	- 1987	MONUMENTED	NGS
FC1928	HISTORY	- 19891103	GOOD	
FC1928	HISTORY	- 19950612	GOOD	NGS
FC1928	HISTORY	- 20031010	GOOD	TNDT
FC1928	HISTORY	- 20081112	GOOD	TNDOT

FC1928

FC1928 STATION DESCRIPTION

FC1928

FC1928'DESCRIBED BY NATIONAL GEODETIC SURVEY 1987 (DAC)

FC1928'THE STATION IS LOCATED ABOUT 11.3 KM (7 MI) SOUTH OF MCMINNVILLE,

FC1928'IN A FILL AREA ON THE WEST SIDE OF STATE ROUTE 56.

FC1928'OWNERSHIP--STATE RIGHT-OF-WAY.

FC1928'

FC1928'TO REACH THE STATION FROM THE COURTHOUSE IN MCMINNVILLE GO

FC1928'SOUTH FOR 3.5 KM (2.2 MI) ON STATE ROUTE 56 TO THE JUNCTION OF

FC1928'STATE ROUTE 127.

FC1928'CONTINUE STRAIGHT AHEAD AND GO SOUTH FOR 3.4 KM (2.1 MI) ON STATE

FC1928'ROUTE 56 TO THE FAIRVIEW COMMUNITY CENTER ON THE RIGHT.

FC1928'CONTINUE STRAIGHT AHEAD AND GO SOUTH FOR 3.4 KM (2.1 MI) ON STATE

FC1928'ROUTE 56 TO THE STATION ON THE RIGHT.

FC1928'

FC1928'THE STATION IS A 3-D MARK WITH STAINLESS STEEL ROD DRIVEN 12.2

FC1928'METERS (40 FT). THE LOGO CAP IS STAMPED---GPS 38 1987---, AND A

FC1928'STEEL SPIKE IS EMBEDDED IN THE CONCRETE. LOCATED

FC1928'81.1 METERS (266 FT) SOUTH FROM THE NORTH END OF A GUARDRAIL,

FC1928'52.7 METERS (173 FT) SOUTH-SOUTHWEST AND ACROSS THE ROAD FROM MILE

FC1928'MARKER NUMBER 6,

FC1928'35.1 METERS (115 FT) NORTH-NORTHEAST FROM A POWER POLE WITH ONE GUY

FC1928'WIRE,

FC1928'9.30 METERS (30.5 FT) WEST FROM THE ROAD CENTER AND 0.6 METERS (2

FC1928'FT) BELOW SAME,

FC1928'2.59 METERS (8.5 FT) WEST FROM A FIBERGLASS WITNESS POST SET AT THE

FC1928'GUARDRAIL.

FC1928

FC1928 STATION RECOVERY (1989)

FC1928

FC1928'RECOVERED 1989

FC1928'RECOVERED IN GOOD CONDITION.

FC1928

FC1928 STATION RECOVERY (1995)

FC1928

FC1928'RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1995 (CFS)

FC1928'THE STATION IS LOCATED ABOUT 11.3 KM (7.00 MI) SOUTH OF MCMINNVILLE,

FC1928'IN A FILL AREA ON THE WEST SIDE OF STATE ROUTE 56.

FC1928'OWNERSHIP--TENNESSEE DEPARTMENT OF TRANSPORTATION. TO REACH THE

FC1928'STATION FROM THE SOUTH SIDE OF THE COURTHOUSE IN MCMINNVILLE, GO EAST

FC1928'FOR 0.16 KM (0.10 MI) ON E. MAIN ST TO AN INTERSECTION. TURN RIGHT

FC1928'AND GO SOUTH FOR 0.16 KM (0.10 MI) ON E. SPRING ST. TO AN

FC1928'INTERSECTION. TURN LEFT AND GO SOUTH FOR 3.5 KM (2.15 MI) ON STATE

FC1928'ROUTE 56 TO THE JUNCTION OF STATE ROUTE 127. CONTINUE STRAIGHT AHEAD

FC1928'AND GO SOUTH FOR 3.4 KM (2.10 MI) ON STATE ROUTE 56 TO THE FAIRVIEW
FC1928'COMMUNITY CENTER ON THE RIGHT. CONTINUE STRAIGHT AHEAD AND GO SOUTH
FC1928'FOR 4.0 KM (2.50 MI) ON STATE ROUTE 56 TO THE STATION ON THE RIGHT.
FC1928'LOCATED 81.1 M (266.1 FT) SOUTH FROM THE NORTH END OF A GUARDRAIL,
FC1928'52.7 M (172.9 FT) SOUTH-SOUTHWEST AND ACROSS THE ROAD FROM MILE MARKER
FC1928'NUMBER 6, 35.1 M (115.2 FT) NORTH-NORTHEAST FROM A POWER POLE WITH ONE
FC1928'GUY WIRE, 9.30 M (30.51 FT) WEST FROM THE ROAD CENTER AND 0.6 M (2.0
FC1928'FT) BELOW SAME, 2.59 M (8.50 FT) WEST FROM A FIBERGLASS WITNESS POST
FC1928'SET AT THE GUARDRAIL. A STEEL SPIKE IS EMBEDDED IN THE CONCRETE.

FC1928

FC1928 STATION RECOVERY (2003)

FC1928

FC1928'RECOVERY NOTE BY TN DEPT OF TRANSP 2003

FC1928'RECOVERED AS DESCRIBED.

FC1928

FC1928 STATION RECOVERY (2008)

FC1928

FC1928'RECOVERY NOTE BY TENNESSEE DEPT. OF 2008 (JTZ)

FC1928'RECOVERED AS DESCRIBED

*** retrieval complete.

Elapsed Time = 00:00:01

The NGS Data Sheet

See file [dsdata.pdf](#) for more information about the datasheet.

PROGRAM = datasheet95, VERSION = 8.12.5.11

Starting Datasheet Retrieval...

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1      National Geodetic Survey,      Retrieval Date = JANUARY 22, 2021
FE2748 *****
FE2748 CBN          -   This is a Cooperative Base Network Control Station.
FE2748 DESIGNATION -   GPS 46
FE2748 PID          -   FE2748
FE2748 STATE/COUNTY-   TN/HAYWOOD
FE2748 COUNTRY      -   US
FE2748 USGS QUAD    -   SUNNYHILL (2019)
FE2748
FE2748                      *CURRENT SURVEY CONTROL
FE2748
FE2748* NAD 83(2011) POSITION- 35 32 25.93791(N) 089 14 21.79770(W) ADJUSTED
FE2748* NAD 83(2011) ELLIP HT-   88.443 (meters)                (06/27/12) ADJUSTED
FE2748* NAD 83(2011) EPOCH   - 2010.00
FE2748* NAVD 88 ORTHO HEIGHT - 116.33 (meters)                381.7 (feet) N HEIGHT
FE2748
FE2748 GEOID HEIGHT   -   -27.863 (meters)                        GEOID18
FE2748 NAD 83(2011) X   -   68,974.081 (meters)                    COMP
FE2748 NAD 83(2011) Y   -  -5,195,412.203 (meters)                COMP
FE2748 NAD 83(2011) Z   -   3,686,880.137 (meters)                COMP
FE2748 LAPLACE CORR    -   -1.92 (seconds)                        DEFLEC18
FE2748 DYNAMIC HEIGHT -   116.22 (meters)                381.3 (feet) COMP
FE2748 MODELED GRAVITY -   979,750.4 (mgal)                    NAVD 88
FE2748
FE2748 VERT ORDER      -   THIRD
FE2748
FE2748 Network accuracy estimates per FGDC Geospatial Positioning Accuracy
FE2748 Standards:
FE2748          FGDC (95% conf, cm)      Standard deviation (cm)      CorrNE
FE2748          Horiz Ellip              SD_N   SD_E   SD_h          (unitless)
FE2748 -----
FE2748 NETWORK    0.67   1.55              0.30   0.24   0.79          -0.01898076
FE2748 -----
FE2748 Click here for local accuracies and other accuracy information.
FE2748
FE2748
FE2748.The horizontal coordinates were established by GPS observations
FE2748.and adjusted by the National Geodetic Survey in June 2012.
FE2748
FE2748.NAD 83(2011) refers to NAD 83 coordinates where the reference frame has
FE2748.been affixed to the stable North American tectonic plate. See
FE2748.NA2011 for more information.
FE2748
FE2748.The horizontal coordinates are valid at the epoch date displayed above
FE2748.which is a decimal equivalence of Year/Month/Day.
FE2748

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FE2748.Superseded values are not recommended for survey control.

FE2748

FE2748.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.

FE2748.See file [dsdata.pdf](#) to determine how the superseded data were derived.

FE2748

FE2748_MARKER: I = METAL ROD

FE2748_SETTING: 59 = STAINLESS STEEL ROD IN SLEEVE (10 FT.+)

FE2748_STAMPING: GPS 46 1987

FE2748_MARK LOGO: NGS

FE2748_PROJECTION: FLUSH

FE2748_MAGNETIC: S = STEEL SPIKE IMBEDDED IN MONUMENT

FE2748_STABILITY: B = PROBABLY HOLD POSITION/ELEVATION WELL

FE2748_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR

FE2748+SATELLITE: SATELLITE OBSERVATIONS - May 18, 2010

FE2748_ROD/PIPE-DEPTH: 7.30 meters

FE2748_SLEEVE-DEPTH : 0.90 meters

FE2748

FE2748	HISTORY	- Date	Condition	Report By
FE2748	HISTORY	- 1987	MONUMENTED	NGS
FE2748	HISTORY	- 19890626	GOOD	
FE2748	HISTORY	- 19930427	GOOD	NOS
FE2748	HISTORY	- 19950620	GOOD	NGS
FE2748	HISTORY	- 20031010	GOOD	TNDT
FE2748	HISTORY	- 20080310	GOOD	TVA
FE2748	HISTORY	- 20081125	POOR	TNDOT
FE2748	HISTORY	- 20100518	GOOD	WAUFOR

FE2748

FE2748

STATION DESCRIPTION

FE2748

FE2748'DESCRIBED BY NATIONAL GEODETIC SURVEY 1987 (DAC)

FE2748'THE STATION IS LOCATED ABOUT 6.4 KM (4 MI) SOUTH-SOUTHEAST OF

FE2748'BROWNSVILLE ON THE NORTH RIGHT-OF-WAY OF INTERSTATE 40,

FE2748'0.8 KM (0.5 MI) EAST-NORTHEAST OF THE JUNCTION OF INTERSTATE 40 AND

FE2748'STATE ROUTE 76 (EXIT 56).

FE2748'OWNERSHIP--FEDERAL RIGHT-OF-WAY.

FE2748'

FE2748'TO REACH THE STATION FROM THE JUNCTION OF INTERSTATE 40 AND STATE

FE2748'ROUTE 76 (EXIT 56) ABOUT 6.4 KM (4 MI) SOUTH-SOUTHEAST OF

FE2748'BROWNSVILLE GO EAST FOR 0.8 KM (0.5 MI) ON INTERSTATE 40 TO THE

FE2748'STATION ON THE LEFT.

FE2748'

FE2748'THE STATION IS A 3-D MARK WITH STAINLESS STEEL ROD DRIVEN 7.3 METERS

FE2748'(24 FT). THE LOGO CAP IS STAMPED---GPS 46 1987---, AND A STEEL

FE2748'SPIKE IS EMBEDDED IN THE CONCRETE. LOCATED

FE2748'40.2 METERS (132 FT) NORTHEAST FROM A MILE MARKER NUMBERED 57,

FE2748'15.70 METERS (51.5 FT) NORTH-NORTHWEST FROM THE NORTH EDGE OF THE

FE2748'CONCRETE PAVEMENT AND 0.9 METERS (3 FT) ABOVE SAME,

FE2748'10.52 METERS (34.5 FT) SOUTH-SOUTHEAST FROM A FIBERGLASS WITNESS

FE2748'POST AT THE NORTH RIGHT-OF-WAY FENCE.

FE2748

FE2748

STATION RECOVERY (1989)

FE2748

FE2748'RECOVERED 1989

FE2748'RECOVERED IN GOOD CONDITION.

FE2748

FE2748 STATION RECOVERY (1993)
 FE2748
 FE2748'RECOVERY NOTE BY NATIONAL OCEAN SERVICE 1993 (DMM)
 FE2748'RECOVERED AS DESCRIBED.
 FE2748
 FE2748 STATION RECOVERY (1995)
 FE2748
 FE2748'RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1995 (CFS)
 FE2748'THE STATION IS LOCATED ABOUT 6.4 KM (3.95 MI) SOUTH-SOUTHEAST OF
 FE2748'BROWNSVILLE, ON THE NORTH RIGHT-OF-WAY OF INTERSTATE HIGHWAY 40, 0.8
 FE2748'KM (0.50 MI) EAST-NORTHEAST OF THE JUNCTION OF INTERSTATE HIGHWAY 40
 FE2748'AND STATE ROUTE 76 (EXIT 56). OWNERSHIP--FEDERAL RIGHT-OF-WAY. TO
 FE2748'REACH THE STATION FROM THE JUNCTION OF INTERSTATE HIGHWAY 40 AND STATE
 FE2748'ROUTE 19 (EXIT 60), ABOUT 8.1 KM (5.05 MI) SOUTHEAST OF BROWNSVILLE,
 FE2748'GO WEST FOR 5.0 KM (3.10 MI) ON INTERSTATE HIGHWAY 40 TO THE STATION
 FE2748'ON THE RIGHT. LOCATED 39.8 M (130.6 FT) NORTHEAST FROM A MILE MARKER
 FE2748'NUMBER 57, 15.7 M (51.5 FT) NORTH-NORTHWEST FROM THE NORTH EDGE OF THE
 FE2748'CONCRETE PAVEMENT, 10.2 M (33.5 FT) SOUTH-SOUTHEAST FROM A FIBERGLASS
 FE2748'WITNESS POST AT THE NORTH RIGHT-OF-WAY FENCE AND 0.9 METERS (3.0 FT)
 FE2748'ABOVE THE HIGHWAY. A STEEL SPIKE IS EMBEDDED IN THE CONCRETE.
 FE2748
 FE2748 STATION RECOVERY (2003)
 FE2748
 FE2748'RECOVERY NOTE BY TN DEPT OF TRANSP 2003
 FE2748'RECOVERED AS DESCRIBED.
 FE2748
 FE2748 STATION RECOVERY (2008)
 FE2748
 FE2748'RECOVERY NOTE BY TENNESSEE VALLEY AUTHORITY 2008
 FE2748'RECOVERED AS DESCRIBED.
 FE2748
 FE2748 STATION RECOVERY (2008)
 FE2748
 FE2748'RECOVERY NOTE BY TENNESSEE DEPT. OF 2008 (JTZ)
 FE2748'DESCRIPTION IS ADEQUATE
 FE2748'LID BROKEN, MISSING
 FE2748
 FE2748 STATION RECOVERY (2010)
 FE2748
 FE2748'RECOVERY NOTE BY J R WAUFORD AND COMPANY 2010 (LEL)
 FE2748'THE STATION IS 29' NORTHEAST OF THE NORTH POLE SUPPORTING A BLUE
 FE2748'HIGHWAY INFORMATION SIGN FOR I-40 EXIT 56.

*** retrieval complete.
 Elapsed Time = 00:00:02

The NGS Data Sheet

See file [dsdata.pdf](#) for more information about the datasheet.

PROGRAM = datasheet95, VERSION = 8.12.5.11

Starting Datasheet Retrieval...

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1      National Geodetic Survey,   Retrieval Date = JANUARY 22, 2021
FC1931 *****
FC1931 CBN          -   This is a Cooperative Base Network Control Station.
FC1931 DESIGNATION -   GPS 50
FC1931 PID          -   FC1931
FC1931 STATE/COUNTY-   TN/MARION
FC1931 COUNTRY     -   US
FC1931 USGS QUAD   -   KETNER GAP (2019)
FC1931
FC1931                      *CURRENT SURVEY CONTROL
FC1931
FC1931* NAD 83(2011) POSITION- 35 11 23.59678(N) 085 29 05.80655(W) ADJUSTED
FC1931* NAD 83(2011) ELLIP HT- 179.230 (meters) (06/27/12) ADJUSTED
FC1931* NAD 83(2011) EPOCH   - 2010.00
FC1931* NAVD 88 ORTHO HEIGHT - 208.29 (meters) 683.4 (feet) LEVELING
FC1931
FC1931 GEOID HEIGHT   -          -29.067 (meters) GEOID18
FC1931 NAD 83(2011) X -          410,802.608 (meters) COMP
FC1931 NAD 83(2011) Y -        -5,202,266.900 (meters) COMP
FC1931 NAD 83(2011) Z -          3,655,206.902 (meters) COMP
FC1931 LAPLACE CORR   -              0.02 (seconds) DEFLEC18
FC1931 VERT ORDER    -   THIRD
FC1931
FC1931 Network accuracy estimates per FGDC Geospatial Positioning Accuracy
FC1931 Standards:
FC1931          FGDC (95% conf, cm)      Standard deviation (cm)      CorrNE
FC1931          Horiz Ellip              SD_N   SD_E   SD_h      (unitless)
FC1931 -----
FC1931 NETWORK      0.49   1.18              0.21   0.19   0.60      -0.04100927
FC1931 -----
FC1931 Click here for local accuracies and other accuracy information.
FC1931
FC1931
FC1931.The horizontal coordinates were established by GPS observations
FC1931.and adjusted by the National Geodetic Survey in June 2012.
FC1931
FC1931.NAD 83(2011) refers to NAD 83 coordinates where the reference frame has
FC1931.been affixed to the stable North American tectonic plate. See
FC1931.NA2011 for more information.
FC1931
FC1931.The horizontal coordinates are valid at the epoch date displayed above
FC1931.which is a decimal equivalence of Year/Month/Day.
FC1931
FC1931.The orthometric height was determined by differential leveling.
FC1931.The vertical network tie was performed by a horz. field party for horz.
FC1931.obs reductions. Reset procedures were used to establish the elevation.

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FC1931

FC1931.Significant digits in the geoid height do not necessarily reflect accuracy.

FC1931.GEOID18 height accuracy estimate available [here](#).

FC1931

FC1931.Click [photographs](#) - Photos may exist for this station.

FC1931

FC1931.The X, Y, and Z were computed from the position and the ellipsoidal ht.

FC1931

FC1931.The Laplace correction was computed from DEFLEC18 derived deflections.

FC1931

FC1931.The ellipsoidal height was determined by GPS observations

FC1931.and is referenced to NAD 83.

FC1931

FC1931. The following values were computed from the NAD 83(2011) position.

FC1931

FC1931;		North	East	Units	Scale	Factor	Converg.
FC1931;SPC TN	-	95,158.842	646,909.741	MT	1.00001115	+0 18	05.5
FC1931;SPC TN	-	312,200.30	2,122,403.04	sFT	1.00001115	+0 18	05.5
FC1931;UTM 16	-	3,895,152.375	637,936.462	MT	0.99983448	+0 52	23.7

FC1931

FC1931! - Elev Factor x Scale Factor = Combined Factor

FC1931!SPC TN - 0.99997187 x 1.00001115 = 0.99998302

FC1931!UTM 16 - 0.99997187 x 0.99983448 = 0.99980635

FC1931

FC1931_U.S. NATIONAL GRID SPATIAL ADDRESS: 16SFD3793695152 (NAD 83)

FC1931

SUPERSEDED SURVEY CONTROL

FC1931

FC1931	NAD 83(2007)-	35 11 23.59680(N)	085 29 05.80761(W)	AD(2002.00)	A
FC1931	ELLIP H (10/16/11)	179.246 (m)		GP(2002.00)	3 2
FC1931	NAD 83(2007)-	35 11 23.59684(N)	085 29 05.80719(W)	AD(2002.00)	0
FC1931	ELLIP H (02/10/07)	179.244 (m)		GP(2002.00)	
FC1931	ELLIP H (08/03/04)	179.245 (m)		GP()	4 1
FC1931	NAD 83(1994)-	35 11 23.59597(N)	085 29 05.80634(W)	AD()	B
FC1931	ELLIP H (03/09/95)	179.226 (m)		GP()	1 1
FC1931	NAD 83(1990)-	35 11 23.59846(N)	085 29 05.80938(W)	AD()	B
FC1931	NAD 27	- 35 11 23.33942(N)	085 29 05.93358(W)	AD()	3
FC1931	ELLIP H (09/07/90)	179.165 (m)		GP()	4 1
FC1931	NAVD 88 (12/14/95)	208.3 (m)	UNKNOWN model used	GPS OBS	
FC1931	NAVD 88 (03/09/95)	208.2 (m)	UNKNOWN model used	GPS OBS	
FC1931	NGVD 29 (??/??/??)	208.34 (m)	683.5 (f)	N HEIGHT	3
FC1931	NGVD 29	208.34 (m)	683.5 (f)	LEVELING	3

FC1931

FC1931.Superseded values are not recommended for survey control.

FC1931

FC1931.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.

FC1931.See file [dsdata.pdf](#) to determine how the superseded data were derived.

FC1931

FC1931_MARKER: I = METAL ROD

FC1931_SETTING: 59 = STAINLESS STEEL ROD IN SLEEVE (10 FT.+)

FC1931_STAMPING: GPS 50 1987

FC1931_MARK LOGO: NGS

FC1931_PROJECTION: FLUSH

FC1931_MAGNETIC: S = STEEL SPIKE IMBEDDED IN MONUMENT

FC1931_STABILITY: B = PROBABLY HOLD POSITION/ELEVATION WELL
 FC1931_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
 FC1931+SATELLITE: SATELLITE OBSERVATIONS - November 13, 2008
 FC1931_ROD/PIPE-DEPTH: 3.40 meters
 FC1931_SLEEVE-DEPTH : 0.90 meters

FC1931	HISTORY	- Date	Condition	Report By
FC1931	HISTORY	- 1987	MONUMENTED	NGS
FC1931	HISTORY	- 1987	GOOD	NGS
FC1931	HISTORY	- 19890712	GOOD	
FC1931	HISTORY	- 19900627	GOOD	ALHD
FC1931	HISTORY	- 19930411	GOOD	NOS
FC1931	HISTORY	- 19940407	GOOD	NGS
FC1931	HISTORY	- 19950612	GOOD	NGS
FC1931	HISTORY	- 20030708	GOOD	GADT
FC1931	HISTORY	- 20031010	GOOD	TNDT
FC1931	HISTORY	- 20040622	GOOD	TNDT
FC1931	HISTORY	- 20060411	GOOD	GADT
FC1931	HISTORY	- 20081113	GOOD	TNDOT

FC1931

STATION DESCRIPTION

FC1931

FC1931'DESCRIBED BY NATIONAL GEODETIC SURVEY 1987 (DAC)
 FC1931'THE STATION IS LOCATED ABOUT 22.5 KM (14 MI)
 FC1931'NORTHWEST OF CHATTANOOGA,
 FC1931'0.16 KM (0.1 MI) NORTHEAST OF THE JUNCTION OF STATE ROUTES 283 AND
 FC1931'27, AT POWELLS CROSSROADS, IN A FIELD BEHIND THE VOLUNTEER FIRE
 FC1931'DEPARTMENT.
 FC1931'OWNERSHIP--CHIEF OF VOLUNTEER FIRE DEPARTMENT, FRANK S. KIMSEY,
 FC1931'TELEPHONE (615)658-5455.

FC1931'

FC1931'TO REACH THE STATION FROM THE JUNCTION OF STATE ROUTES 283 AND 27
 FC1931'IN POWELLS CROSSROADS GO NORTHEAST FOR 0.16 KM (0.1 MI) ON STATE
 FC1931'ROUTE 283 TO THE FIRE STATION AND THE STATION ON THE RIGHT.

FC1931'

FC1931'THE STATION IS A 3-D MARK WITH STAINLESS STEEL ROD DRIVEN 3.4 METERS
 FC1931'(11 FT). THE LOGO CAP IS STAMPED---GPS 50 1987---, AND A RAILROAD
 FC1931'SPIKE IS SET IN THE CONCRETE. LOCATED
 FC1931'63.1 METERS (207 FT) EAST FROM THE CENTER OF STATE ROUTE 283,
 FC1931'58.5 METERS (192 FT) SOUTH FROM THE CENTER OF KETNER COVE ROAD,
 FC1931'31.4 METERS (103 FT) EAST FROM THE REAR WALL OF THE FIRE STATION,
 FC1931'0.37 METERS (1.2 FT) WEST FROM A FIBERGLASS WITNESS POST.

FC1931

STATION RECOVERY (1987)

FC1931

FC1931'RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1987
 FC1931'RECOVERED IN GOOD CONDITION.

FC1931

STATION RECOVERY (1989)

FC1931

FC1931'RECOVERED 1989
 FC1931'RECOVERED IN GOOD CONDITION.

FC1931

STATION RECOVERY (1990)

FC1931

FC1931'RECOVERY NOTE BY ALABAMA HIGHWAY DEPARTMENT 1990
 FC1931'THE STATION IS LOCATED IN MARION COUNTY TENNESSEE ON PROPERTY OF
 FC1931'POWELLS CROSSROADS VOLUNTEER FIRE DEPARTMENT IN POWELLS CROSSROADS.
 FC1931'TO REACH THE STATION FROM THE JUNCTION OF TENNESSEE STATE HIGHWAY 27
 FC1931'AND TENNESSEE STATE HIGHWAY 283 IN POWELLS CROSSROADS, DRIVE
 FC1931'NORTHEAST ON TENNESSEE STATE HIGHWAY 283 0.16 KM (0.10 MI) TO THE
 FC1931'POWELLS CROSSROADS VOLUNTEER FIRE DEPARTMENT BUILDING ON THE RIGHT
 FC1931'AND THE STATION BEHIND THE BUILDING.
 FC1931'THE STATION IS 63.1 M (207.0 FT) EAST OF THE CENTERLINE OF TENNESSEE
 FC1931'STATE HIGHWAY 283, 58.5 M (191.9 FT) SOUTH OF THE CENTER OF THE
 FC1931'KETNER COVE ROAD, 31.4 M (103.0 FT) EAST OF THE REAR WALL OF THE FIRE
 FC1931'DEPARTMENT BUILDING, 0.37 M (1.21 FT) WEST OF A CARSONITE WITNESS
 FC1931'POST, AND IS A STAINLESS STEEL ROD WITH A LOGO CAP.
 FC1931'BEFORE USING THIS STATION AT NIGHT, PLEASE NOTIFY
 FC1931'MR. FRANK S. KIMSEY, CHIEF
 FC1931'POWELLS CROSSROADS VOLUNTEER FIRE DEPARTMENT
 FC1931'PHONE 615 - 658 - 5455.
 FC1931'NOTE--ACCESS TO DATUM POINT IS HAD THROUGH A 5-INCH LOGO CAP.
 FC1931
 FC1931 STATION RECOVERY (1993)
 FC1931
 FC1931'RECOVERY NOTE BY NATIONAL OCEAN SERVICE 1993
 FC1931'RECOVERED IN GOOD CONDITION.
 FC1931
 FC1931 STATION RECOVERY (1994)
 FC1931
 FC1931'RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1994 (CGS)
 FC1931'THE STATION IS LOCATED ABOUT 22.5 KM (14.00 MI) NORTHWEST OF
 FC1931'CHATTANOOGA, 0.16 KM (0.10 MI) NORTHEAST OF THE JUNCTION OF STATE
 FC1931'ROUTE 283 AND 27, AT POWELLS CROSSROADS, IN A FIELD BEHIND THE
 FC1931'VOLUNTEER FIRE DEPARTMENT. OWNERSHIP--CHIEF OF VOLUNTEER FIRE
 FC1931'DEPARTMENT, FRANK S. KIMSEY, TELEPHONE--615-658-5455. TO REACH THE
 FC1931'STATION FROM THE JUNCTION OF STATE ROUTES 283 AND 27 IN POWELLS
 FC1931'CROSSROADS GO NORTHEAST FOR 0.16 KM (0.10 MI) ON STATE ROUTE 283 TO
 FC1931'THE FIRE STATION AND THE STATION ON THE RIGHT. THE STATION IS LOCATED
 FC1931'63.1 M (207.0 FT) EAST FROM THE CENTER OF STATE ROUTE 283, 58.5 M
 FC1931'(191.9 FT) SOUTH FROM THE CENTER OF KETNER COVE ROAD, 31.4 M (103.0
 FC1931'FT) EAST FROM THE REAR WALL OF THE FIRE STATION AND 0.37 M (1.21 FT)
 FC1931'WEST FROM A FIBERGLASS WITNESS POST.
 FC1931
 FC1931 STATION RECOVERY (1995)
 FC1931
 FC1931'RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1995 (CFS)
 FC1931'RECOVERED AS DESCRIBED.
 FC1931
 FC1931 STATION RECOVERY (2003)
 FC1931
 FC1931'RECOVERY NOTE BY GEORGIA DEPARTMENT OF TRANSPORTATION 2003
 FC1931'RECOVERED IN GOOD CONDITION.
 FC1931
 FC1931 STATION RECOVERY (2003)
 FC1931
 FC1931'RECOVERY NOTE BY TN DEPT OF TRANSP 2003
 FC1931'RECOVERED AS DESCRIBED.
 FC1931

FC1931 STATION RECOVERY (2004)
FC1931
FC1931'RECOVERY NOTE BY TN DEPT OF TRANSP 2004 (WM)
FC1931'RECOVERED AS DESCRIBED.
FC1931
FC1931 STATION RECOVERY (2006)
FC1931
FC1931'RECOVERY NOTE BY GEORGIA DEPARTMENT OF TRANSPORTATION 2006
FC1931'RECOVERED IN GOOD CONDITION.
FC1931
FC1931 STATION RECOVERY (2008)
FC1931
FC1931'RECOVERY NOTE BY TENNESSEE DEPT. OF 2008 (JTZ)
FC1931'RECOVERED AS DESCRIBED

*** retrieval complete.
Elapsed Time = 00:00:01

The NGS Data Sheet

See file [dsdata.pdf](#) for more information about the datasheet.

PROGRAM = datasheet95, VERSION = 8.12.5.11

Starting Datasheet Retrieval...

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1      National Geodetic Survey,      Retrieval Date = JANUARY 22, 2021
AI9846 *****
AI9846 PACS          -   This is a Primary Airport Control Station.
AI9846 DESIGNATION -   M53 A
AI9846 PID          -   AI9846
AI9846 STATE/COUNTY-   TN/GIBSON
AI9846 COUNTRY      -   US
AI9846 USGS QUAD    -   MEDINA (2019)
AI9846
AI9846                      *CURRENT SURVEY CONTROL
AI9846
AI9846* NAD 83(2011) POSITION- 35 48 07.63198(N) 088 52 28.44502(W) ADJUSTED
AI9846* NAD 83(2011) ELLIP HT- 98.098 (meters) (06/27/12) ADJUSTED
AI9846* NAD 83(2011) EPOCH - 2010.00
AI9846* NAVD 88 ORTHO HEIGHT - 126.39 (meters) 414.7 (feet) GPS OBS
AI9846
AI9846 NAVD 88 orthometric height was determined with geoid model GEOID99
AI9846 GEOID HEIGHT - -28.239 (meters) GEOID99
AI9846 GEOID HEIGHT - -28.279 (meters) GEOID18
AI9846 NAD 83(2011) X - 101,721.009 (meters) COMP
AI9846 NAD 83(2011) Y - -5,177,954.114 (meters) COMP
AI9846 NAD 83(2011) Z - 3,710,463.869 (meters) COMP
AI9846 LAPLACE CORR - -0.29 (seconds) DEFLEC18
AI9846
AI9846 Network accuracy estimates per FGDC Geospatial Positioning Accuracy
AI9846 Standards:
AI9846          FGDC (95% conf, cm)          Standard deviation (cm)          CorrNE
AI9846          Horiz Ellip                    SD_N   SD_E   SD_h          (unitless)
AI9846 -----
AI9846 NETWORK    0.60    1.59                0.25   0.24   0.81          0.12602370
AI9846 -----
AI9846 Click here for local accuracies and other accuracy information.
AI9846
AI9846
AI9846.This mark is at Humboldt Airport (M53)
AI9846
AI9846.The horizontal coordinates were established by GPS observations
AI9846.and adjusted by the National Geodetic Survey in June 2012.
AI9846
AI9846.NAD 83(2011) refers to NAD 83 coordinates where the reference frame has
AI9846.been affixed to the stable North American tectonic plate. See
AI9846.NA2011 for more information.
AI9846
AI9846.The horizontal coordinates are valid at the epoch date displayed above
AI9846.which is a decimal equivalence of Year/Month/Day.
AI9846

```


AI9846.The orthometric height was determined by GPS observations and a
AI9846.high-resolution geoid model.

AI9846

AI9846.GPS derived orthometric heights for airport stations designated as
AI9846.PACS or SACS are published to 2 decimal places. This maintains
AI9846.centimeter relative accuracy between the PACS and SACS. It does
AI9846.not indicate centimeter accuracy relative to other marks which are
AI9846.part of the NAVD 88 network.

AI9846

AI9846.Significant digits in the geoid height do not necessarily reflect accuracy.
AI9846.GEOID18 height accuracy estimate available [here](#).

AI9846

AI9846.Click [photographs](#) - Photos may exist for this station.

AI9846

AI9846.The X, Y, and Z were computed from the position and the ellipsoidal ht.

AI9846

AI9846.The Laplace correction was computed from DEFLEC18 derived deflections.

AI9846

AI9846.The ellipsoidal height was determined by GPS observations

AI9846.and is referenced to NAD 83.

AI9846

AI9846. The following values were computed from the NAD 83(2011) position.

AI9846

AI9846;		North	East	Units	Scale Factor	Converg.
AI9846;SPC TN	-	166,775.691	340,223.126	MT	0.99994856	-1 40 58.4
AI9846;SPC TN	-	547,163.25	1,116,215.37	sFT	0.99994856	-1 40 58.4
AI9846;UTM 16	-	3,963,622.283	330,618.954	MT	0.99995354	-1 05 48.7

AI9846

AI9846! Elev Factor x Scale Factor = Combined Factor

AI9846!SPC TN - 0.99998460 x 0.99994856 = 0.99993316

AI9846!UTM 16 - 0.99998460 x 0.99995354 = 0.99993814

AI9846

AI9846: Primary Azimuth Mark

Grid Az

AI9846:SPC TN - M53 B 047 03 26.7

AI9846:UTM 16 - M53 B 046 28 17.0

AI9846

AI9846_U.S. NATIONAL GRID SPATIAL ADDRESS: 16SCE3061863622 (NAD 83)

AI9846

AI9846	PID	Reference Object	Distance	Geod. Az
AI9846				dddmmss.s
AI9846	AI9819	M53 B	APPROX. 0.5 KM	0452228.3
AI9846	AI9838	M53 C	APPROX. 0.5 KM	2204349.0

AI9846

AI9846

SUPERSEDED SURVEY CONTROL

AI9846

AI9846 NAD 83(2007)- 35 48 07.63206(N) 088 52 28.44603(W) AD(2002.00) 0

AI9846 ELLIP H (02/10/07) 98.115 (m) GP(2002.00)

AI9846 NAD 83(1995)- 35 48 07.63162(N) 088 52 28.44591(W) AD() B

AI9846 ELLIP H (02/20/01) 98.139 (m) GP() 2 1

AI9846

AI9846.Superseded values are not recommended for survey control.

AI9846

AI9846.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.
 AI9846.See file [dsdata.pdf](#) to determine how the superseded data were derived.
 AI9846
 AI9846_MARKER: I = METAL ROD
 AI9846_SETTING: 59 = STAINLESS STEEL ROD IN SLEEVE (10 FT.+)
 AI9846_STAMPING: M53 A 1996
 AI9846_MARK LOGO: NGS
 AI9846_PROJECTION: FLUSH
 AI9846_MAGNETIC: N = NO MAGNETIC MATERIAL
 AI9846_STABILITY: B = PROBABLY HOLD POSITION/ELEVATION WELL
 AI9846_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
 AI9846+SATELLITE: SATELLITE OBSERVATIONS - June 23, 2005
 AI9846_ROD/PIPE-DEPTH: 14.3 meters
 AI9846_SLEEVE-DEPTH : 1 meters

AI9846	HISTORY	- Date	Condition	Report By
AI9846	HISTORY	- 1996	MONUMENTED	LOWE
AI9846	HISTORY	- 20040324	GOOD	COMPA
AI9846	HISTORY	- 20050623	GOOD	CAS

AI9846

AI9846 STATION DESCRIPTION

AI9846

AI9846'DESCRIBED BY LOWE ENGINEERS 1996 (JDJ)
 AI9846'THE STATION IS LOCATED ABOUT 4.8 KM (3.0 MI) SOUTHEAST OF HUMBOLDT
 AI9846'AT THE HUMBOLDT MUNICIPAL AIRPORT. HUMBOLDT MUNICIPAL
 AI9846'AIRPORT IS AN UNCONTROLLED AIRPORT WITH NO ESCORT REQUIRED.
 AI9846'CHECK WITH THE AIRPORT MANAGER, GUY LONDE, TELEPHONE NUMBER
 AI9846'901-784-5571, BEFORE ENTERING THE FIELD.
 AI9846'

AI9846'TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 45W AND
 AI9846'U.S. HIGHWAY 45W BUSINESS, SOUTH OF HUMBOLDT, GO SOUTH ON U.S.
 AI9846'HIGHWAY 45W 1.6 KM (1.0 MI) TO THE PAVED AIRPORT ENTRANCE ROAD ON
 AI9846'THE LEFT. TURN LEFT AND GO EAST ON THE ENTRANCE ROAD 0.24 KM (0.15
 AI9846'MI) TO THE AIRPORT OFFICE AND THE GATE AT THE SOUTHWEST SIDE OF
 AI9846'THE OFFICE. ENTER THROUGH THE GATE AND GO 0.16 KM (0.1 MI)
 AI9846'NORTHEAST ACROSS THE APRON AND TAXIWAY AREA TO THE JUNCTION OF
 AI9846'THE MAIN NORTHEAST-SOUTHWEST TAXIWAY. TURN RIGHT AND GO
 AI9846'NORTHEAST 0.48 KM (0.3 MI) TO THE STATION ON THE LEFT BETWEEN THE
 AI9846'TAXIWAY AND RUNWAY 22.
 AI9846'

AI9846'THE STATION IS THE TOP OF A STAINLESS STEEL ROD DRIVEN TO REFUSAL
 AI9846'TO A DEPTH OF 14.3 M (46.9 FT), 5 CM BELOW GROUND LEVEL, AND ENCASED
 AI9846'IN A 0.16 M (0.52 FT) PVC PIPE WITH A NGS LOGO CAP SURROUNDED BY
 AI9846'CONCRETE. THE LOGO CAP AND CONCRETE ARE SET FLUSH WITH THE
 AI9846'GROUND. THE LOGO CAP IS STAMPED M53 A 1996. THE STATION IS 37.6 M
 AI9846'(123.4 FT) SOUTHWEST OF THE ELEVENTH (11TH) RUNWAY LIGHT FROM THE
 AI9846'SOUTHWEST END OF THE RUNWAY, 25.78 M (84.6 FT) NORTHEAST OF THE
 AI9846'TENTH (10TH) RUNWAY LIGHT FROM THE SOUTHWEST END OF THE
 AI9846'RUNWAY, AND 17.13 M (56.2 FT) SOUTHEAST OF THE SOUTHEAST EDGE OF
 AI9846'THE RUNWAY. THIS STATION IS DESIGNATED A PRIMARY AIRPORT CONTROL
 AI9846'STATION.

AI9846

AI9846 STATION RECOVERY (2004)

AI9846

AI9846'RECOVERY NOTE BY COMPASSCOM INC 2004 (IR)

AI9846'RECOVERED IN GOOD CONDITION.

AI9846

AI9846

STATION RECOVERY (2005)

AI9846

AI9846'RECOVERY NOTE BY CONTINENTAL AERIAL SURVEY INCO 2005 (JCA)

AI9846'RECOVERED IN GOOD CONDITION.

*** retrieval complete.

Elapsed Time = 00:00:01

The NGS Data Sheet

See file [dsdata.pdf](#) for more information about the datasheet.

PROGRAM = datasheet95, VERSION = 8.12.5.11

Starting Datasheet Retrieval...

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1      National Geodetic Survey,   Retrieval Date = JANUARY 22, 2021
AI9819 *****
AI9819 SACS          -   This is a Secondary Airport Control Station.
AI9819 DESIGNATION -   M53 B
AI9819 PID          -   AI9819
AI9819 STATE/COUNTY-   TN/GIBSON
AI9819 COUNTRY     -   US
AI9819 USGS QUAD   -   MEDINA (2019)
AI9819
AI9819                      *CURRENT SURVEY CONTROL
AI9819
AI9819* NAD 83(2011) POSITION- 35 48 19.54829(N) 088 52 13.62384(W) ADJUSTED
AI9819* NAD 83(2011) ELLIP HT- 99.384 (meters) (06/27/12) ADJUSTED
AI9819* NAD 83(2011) EPOCH - 2010.00
AI9819* NAVD 88 ORTHO HEIGHT - 127.68 (meters) 418.9 (feet) GPS OBS
AI9819
AI9819 NAVD 88 orthometric height was determined with geoid model GEOID99
AI9819 GEOID HEIGHT - -28.241 (meters) GEOID99
AI9819 GEOID HEIGHT - -28.280 (meters) GEOID18
AI9819 NAD 83(2011) X - 102,088.856 (meters) COMP
AI9819 NAD 83(2011) Y - -5,177,733.015 (meters) COMP
AI9819 NAD 83(2011) Z - 3,710,762.492 (meters) COMP
AI9819 LAPLACE CORR - -0.30 (seconds) DEFLEC18
AI9819
AI9819 Network accuracy estimates per FGDC Geospatial Positioning Accuracy
AI9819 Standards:
AI9819          FGDC (95% conf, cm)          Standard deviation (cm)          CorrNE
AI9819          Horiz Ellip                  SD_N   SD_E   SD_h          (unitless)
AI9819 -----
AI9819 NETWORK    0.62    1.61                0.26   0.25   0.82          0.10406840
AI9819 -----
AI9819 Click here for local accuracies and other accuracy information.
AI9819
AI9819
AI9819.This mark is at Humboldt Airport (M53)
AI9819
AI9819.The horizontal coordinates were established by GPS observations
AI9819.and adjusted by the National Geodetic Survey in June 2012.
AI9819
AI9819.NAD 83(2011) refers to NAD 83 coordinates where the reference frame has
AI9819.been affixed to the stable North American tectonic plate. See
AI9819.NA2011 for more information.
AI9819
AI9819.The horizontal coordinates are valid at the epoch date displayed above
AI9819.which is a decimal equivalence of Year/Month/Day.
AI9819

```


AI9819.The orthometric height was determined by GPS observations and a
AI9819.high-resolution geoid model.

AI9819

AI9819.GPS derived orthometric heights for airport stations designated as
AI9819.PACS or SACS are published to 2 decimal places. This maintains
AI9819.centimeter relative accuracy between the PACS and SACS. It does
AI9819.not indicate centimeter accuracy relative to other marks which are
AI9819.part of the NAVD 88 network.

AI9819

AI9819.Significant digits in the geoid height do not necessarily reflect accuracy.
AI9819.GEOID18 height accuracy estimate available [here](#).

AI9819

AI9819.Click [photographs](#) - Photos may exist for this station.

AI9819

AI9819.The X, Y, and Z were computed from the position and the ellipsoidal ht.

AI9819

AI9819.The Laplace correction was computed from DEFLEC18 derived deflections.

AI9819

AI9819.The ellipsoidal height was determined by GPS observations

AI9819.and is referenced to NAD 83.

AI9819

AI9819. The following values were computed from the NAD 83(2011) position.

AI9819

AI9819;		North	East	Units	Scale Factor	Converg.
AI9819;SPC TN	-	167,131.866	340,605.845	MT	0.99994853	-1 40 49.7
AI9819;SPC TN	-	548,331.80	1,117,471.01	sFT	0.99994853	-1 40 49.7
AI9819;UTM 16	-	3,963,982.355	330,998.012	MT	0.99995196	-1 05 40.3

AI9819

AI9819!		Elev Factor	x	Scale Factor	=	Combined Factor
AI9819!SPC TN	-	0.99998440	x	0.99994853	=	0.99993293
AI9819!UTM 16	-	0.99998440	x	0.99995196	=	0.99993636

AI9819

AI9819:		Primary Azimuth Mark	Grid Az
AI9819:SPC TN	-	M53 A	227 03 26.7
AI9819:UTM 16	-	M53 A	226 28 17.3

AI9819

AI9819_U.S. NATIONAL GRID SPATIAL ADDRESS: 16SCE3099863982 (NAD 83)

AI9819

AI9819	PID	Reference Object	Distance	Geod. Az
AI9819				dddmmss.s
AI9819	AI9846	M53 A	APPROX. 0.5 KM	2252237.0

AI9819

AI9819

SUPERSEDED SURVEY CONTROL

AI9819

AI9819	NAD 83(2007)-	35 48 19.54836(N)	088 52 13.62485(W)	AD(2002.00)	0
AI9819	ELLIP H (02/10/07)	99.400 (m)		GP(2002.00)	
AI9819	NAD 83(1995)-	35 48 19.54793(N)	088 52 13.62473(W)	AD()	1
AI9819	ELLIP H (02/20/01)	99.425 (m)		GP()	2 1

AI9819

AI9819.Superseded values are not recommended for survey control.

AI9819

AI9819.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.

AI9819. See file [dsdata.pdf](#) to determine how the superseded data were derived.

AI9819

AI9819_MARKER: DD = SURVEY DISK

AI9819_SETTING: 17 = SET INTO TOP OF METAL PIPE DRIVEN INTO GROUND

AI9819_STAMPING: M53 B 1996

AI9819_MARK LOGO: NGS

AI9819_PROJECTION: FLUSH

AI9819_MAGNETIC: N = NO MAGNETIC MATERIAL

AI9819_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO

AI9819+STABILITY: SURFACE MOTION

AI9819_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR

AI9819+SATELLITE: SATELLITE OBSERVATIONS - June 23, 2005

AI9819_ROD/PIPE-DEPTH: 1 meters

AI9819

HISTORY	- Date	Condition	Report By
HISTORY	- 1996	MONUMENTED	LOWE
HISTORY	- 20050623	GOOD	CAS

AI9819

AI9819 STATION DESCRIPTION

AI9819

AI9819'DESCRIBED BY LOWE ENGINEERS 1996 (JDJ)

AI9819'THE STATION IS LOCATED ABOUT 4.8 KM (3.0 MI) SOUTHEAST OF HUMBOLDT

AI9819'AT THE HUMBOLDT MUNICIPAL AIRPORT. HUMBOLDT MUNICIPAL

AI9819'AIRPORT IS AN UNCONTROLLED AIRPORT WITH NO ESCORT REQUIRED.

AI9819'CHECK WITH THE AIRPORT MANAGER, GUY LONDE, TELEPHONE NUMBER

AI9819'901-784-5571, BEFORE ENTERING THE FIELD.

AI9819'

AI9819'TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 45W U.S.

AI9819'HIGHWAY 45W BUSINESS, SOUTH OF HUMBOLDT, GO SOUTH ON U.S.

AI9819'HIGHWAY 45W 1.6 KM (1.0 MI) TO THE PAVED AIRPORT ENTRANCE ROAD ON

AI9819'THE LEFT. TURN LEFT AND GO EAST ON THE AIRPORT ENTRANCE ROAD 0.24

AI9819'KM (0.15 MI) TO THE AIRPORT OFFICE AND THE GATE AT THE SOUTHWEST

AI9819'SIDE OF THE OFFICE. ENTER THROUGH THE GATE AND GO 0.16 KM (0.1 MI)

AI9819'NORTHEAST ACROSS THE APRON AND TAXIWAY TO THE JUNCTION OF THE

AI9819'MAIN NORTHEAST-SOUTHWEST TAXIWAY. TURN RIGHT AND GO 0.96 KM (0.6

AI9819'MI) TO THE STATION ON THE LEFT BETWEEN THE TAXIWAY AND RUNWAY 22.

AI9819'

AI9819'THE STATION IS THE CENTER OF A 0.05 M (0.16 FT) SURVEY DISK SET INTO

AI9819'THE TOP OF A 1 M (3.3 FT) LONG FENO PIPE ENCASED IN A 0.16 M (0.52 FT)

AI9819'PVC

AI9819'PIPE WITH A NGS LOGO CAP SURROUNDED BY CONCRETE. THE LOGO CAP

AI9819'AND CONCRETE ARE SET FLUSH WITH THE GROUND. THREE CIRCULAR

AI9819'ANCHOR PRONGS EXTEND FROM THE BOTTOM OF THE PIPE. THE NGS LOGO

AI9819'CAP IS STAMPED M53 B 1996. THE STATION IS 84.55 M (277.4 FT) NORTHEAST

AI9819'OF THE NORTHWEST VASI LIGHT, 33.68 M (110.5 FT) SOUTHWEST FROM THE

AI9819'CENTER OF A CATCH BASIN LOCATED 9.75 M (32.0 FT) NORTHWEST OF THE

AI9819'TAXIWAY, 25.91 M (85.0 FT) SOUTHEAST OF THE SOUTHEAST EDGE OF

AI9819'RUNWAY 22, AND 18.13 M (59.5 FT) NORTHWEST OF THE NORTHWEST EDGE

AI9819'OF THE TAXIWAY. THIS STATION IS DESIGNATED A SECONDARY AIRPORT

AI9819'CONTROL STATION.

AI9819

AI9819 STATION RECOVERY (2005)

AI9819

AI9819'RECOVERY NOTE BY CONTINENTAL AERIAL SURVEY INCO 2005 (JCA)

AI9819'RECOVERED IN GOOD CONDITION.

*** retrieval complete.
Elapsed Time = 00:00:02

The NGS Data Sheet

See file [dsdata.pdf](#) for more information about the datasheet.

PROGRAM = datasheet95, VERSION = 8.12.5.11

Starting Datasheet Retrieval...

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1      National Geodetic Survey,      Retrieval Date = JANUARY 22, 2021
AI9838 *****
AI9838 SACS          - This is a Secondary Airport Control Station.
AI9838 DESIGNATION - M53 C
AI9838 PID          - AI9838
AI9838 STATE/COUNTY- TN/GIBSON
AI9838 COUNTRY     - US
AI9838 USGS QUAD   - HUMBOLDT (2019)
AI9838
AI9838                      *CURRENT SURVEY CONTROL
AI9838
AI9838* NAD 83(2011) POSITION- 35 47 55.21535(N) 088 52 41.56836(W) ADJUSTED
AI9838* NAD 83(2011) ELLIP HT- 95.598 (meters) (06/27/12) ADJUSTED
AI9838* NAD 83(2011) EPOCH - 2010.00
AI9838* NAVD 88 ORTHO HEIGHT - 123.89 (meters) 406.5 (feet) GPS OBS
AI9838
AI9838 NAVD 88 orthometric height was determined with geoid model GEOID99
AI9838 GEOID HEIGHT - -28.238 (meters) GEOID99
AI9838 GEOID HEIGHT - -28.277 (meters) GEOID18
AI9838 NAD 83(2011) X - 101,395.911 (meters) COMP
AI9838 NAD 83(2011) Y - -5,178,182.370 (meters) COMP
AI9838 NAD 83(2011) Z - 3,710,152.015 (meters) COMP
AI9838 LAPLACE CORR - -0.27 (seconds) DEFLEC18
AI9838
AI9838 Network accuracy estimates per FGDC Geospatial Positioning Accuracy
AI9838 Standards:
AI9838      FGDC (95% conf, cm)      Standard deviation (cm)      CorrNE
AI9838      Horiz Ellip              SD_N   SD_E   SD_h      (unitless)
AI9838 -----
AI9838 NETWORK 0.62 1.61              0.26  0.25  0.82      0.12976843
AI9838 -----
AI9838 Click here for local accuracies and other accuracy information.
AI9838
AI9838
AI9838.This mark is at Humboldt Airport (M53)
AI9838
AI9838.The horizontal coordinates were established by GPS observations
AI9838.and adjusted by the National Geodetic Survey in June 2012.
AI9838
AI9838.NAD 83(2011) refers to NAD 83 coordinates where the reference frame has
AI9838.been affixed to the stable North American tectonic plate. See
AI9838.NA2011 for more information.
AI9838
AI9838.The horizontal coordinates are valid at the epoch date displayed above
AI9838.which is a decimal equivalence of Year/Month/Day.
AI9838

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AI9838.The orthometric height was determined by GPS observations and a
AI9838.high-resolution geoid model.

AI9838

AI9838.GPS derived orthometric heights for airport stations designated as
AI9838.PACS or SACS are published to 2 decimal places. This maintains
AI9838.centimeter relative accuracy between the PACS and SACS. It does
AI9838.not indicate centimeter accuracy relative to other marks which are
AI9838.part of the NAVD 88 network.

AI9838

AI9838.Significant digits in the geoid height do not necessarily reflect accuracy.

AI9838.GEOID18 height accuracy estimate available [here](#).

AI9838

AI9838.Click [photographs](#) - Photos may exist for this station.

AI9838

AI9838.The X, Y, and Z were computed from the position and the ellipsoidal ht.

AI9838

AI9838.The Laplace correction was computed from DEFLEC18 derived deflections.

AI9838

AI9838.The ellipsoidal height was determined by GPS observations

AI9838.and is referenced to NAD 83.

AI9838

AI9838. The following values were computed from the NAD 83(2011) position.

AI9838

AI9838;		North	East	Units	Scale Factor	Converg.
AI9838;SPC TN	-	166,402.867	339,882.533	MT	0.99994859	-1 41 06.1
AI9838;SPC TN	-	545,940.07	1,115,097.94	sFT	0.99994859	-1 41 06.1
AI9838;UTM 16	-	3,963,245.992	330,282.191	MT	0.99995494	-1 05 56.0

AI9838

AI9838! - Elev Factor x Scale Factor = Combined Factor

AI9838!SPC TN - 0.99998500 x 0.99994859 = 0.99993359

AI9838!UTM 16 - 0.99998500 x 0.99995494 = 0.99993994

AI9838

AI9838:		Primary Azimuth Mark	Grid Az
AI9838:SPC TN	-	M53 A	042 24 47.4
AI9838:UTM 16	-	M53 A	041 49 37.3

AI9838

AI9838_U.S. NATIONAL GRID SPATIAL ADDRESS: 16SCE3028263245 (NAD 83)

AI9838

AI9838	PID	Reference Object	Distance	Geod. Az
AI9838				dddmmss.s
AI9838	AI9846	M53 A	APPROX. 0.5 KM	0404341.3

AI9838

AI9838 SUPERSEDED SURVEY CONTROL

AI9838

AI9838 NAD 83(2007)- 35 47 55.21543(N) 088 52 41.56936(W) AD(2002.00) 0

AI9838 ELLIP H (02/10/07) 95.614 (m) GP(2002.00)

AI9838 NAD 83(1995)- 35 47 55.21499(N) 088 52 41.56925(W) AD() 1

AI9838 ELLIP H (02/20/01) 95.638 (m) GP() 2 1

AI9838

AI9838.Superseded values are not recommended for survey control.

AI9838

AI9838.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.

AI9838. See file [dsdata.pdf](#) to determine how the superseded data were derived.

AI9838

AI9838_MARKER: DD = SURVEY DISK

AI9838_SETTING: 17 = SET INTO TOP OF METAL PIPE DRIVEN INTO GROUND

AI9838_STAMPING: M53 C 1996

AI9838_MARK LOGO: NGS

AI9838_PROJECTION: FLUSH

AI9838_MAGNETIC: N = NO MAGNETIC MATERIAL

AI9838_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO

AI9838+STABILITY: SURFACE MOTION

AI9838_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR

AI9838+SATELLITE: SATELLITE OBSERVATIONS - 1996

AI9838_ROD/PIPE-DEPTH: 1 meters

AI9838

HISTORY	- Date	Condition	Report By
HISTORY	- 1996	MONUMENTED	LOWE

HISTORY	- 1996	MONUMENTED	LOWE
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AI9838

AI9838 STATION DESCRIPTION

AI9838

AI9838'DESCRIBED BY LOWE ENGINEERS 1996 (JDJ)

AI9838'THE STATION IS LOCATED ABOUT 4.8 KM (3.0 MI) SOUTHEAST OF HUMBOLDT

AI9838'AT THE HUMBOLDT MUNICIPAL AIRPORT. HUMBOLDT MUNICIPAL

AI9838'AIRPORT IS AN UNCONTROLLED AIRPORT WITH NO ESCORT REQUIRED.

AI9838'CHECK WITH THE AIRPORT MANAGER, GUY LONDE, TELEPHONE NUMBER

AI9838'901-784-5571, BEFORE ENTERING THE FIELD.

AI9838'

AI9838'TO REACH THE STATION FROM THE JUNCTION OF U.S. HIGHWAY 45W AND

AI9838'U.S. HIGHWAY 45W BUSINESS, SOUTH OF HUMBOLDT, GO SOUTH 1.6 KM (1.0

AI9838'MI) ON U.S. HIGHWAY 45W TO THE PAVED AIRPORT ENTRANCE ROAD ON THE

AI9838'LEFT. TURN LEFT AND GO EAST ON THE AIRPORT ENTRANCE ROAD 0.24 KM

AI9838'(0.15 MI) TO THE AIRPORT OFFICE AND THE GATE AT THE SOUTHWEST SIDE

AI9838'OF THE OFFICE. ENTER THROUGH THE GATE AND GO 0.16 KM (0.1 MI)

AI9838'NORTHEAST ALONG THE APRON AND TAXIWAY TO THE STATION ON THE

AI9838'LEFT. THE STATION IS IN LINE WITH THE EXTENDED CENTERLINE OF THE

AI9838'MAIN NORTHEAST-SOUTHWEST TAXIWAY.

AI9838'

AI9838'THE STATION IS THE CENTER OF A 0.05 M (0.16 FT) SURVEY DISK SET INTO

AI9838'THE TOP OF A 1 M (3.3 FT) LONG FENO PIPE ENCASED IN A 0.16 M (0.52 FT)

AI9838'PVC

AI9838'PIPE WITH A NGS LOGO CAP SURROUNDED BY CONCRETE. THE LOGO CAP

AI9838'AND CONCRETE ARE SET FLUSH WITH THE GROUND. THREE CIRCULAR

AI9838'ANCHOR PRONGS EXTEND FROM THE BOTTOM OF THE PIPE. THE NGS LOGO

AI9838'CAP IS STAMPED M53 C 1996. THE STATION IS 106.68 M (350 FT)

AI9838'NORTH-NORTHWEST OF THE NORTHEAST CORNER OF THE AIRPORT OFFICE,

AI9838'79.76 M (261.7 FT) WEST-SOUTHWEST OF THE CENTER OF A WIND SOCK

AI9838'POST, AND 25.93 M (85.1 FT) SOUTHWEST OF THE SOUTHWEST EDGE OF THE

AI9838'TAXIWAY. THIS STATION IS DESIGNATED A SECONDARY AIRPORT CONTROL

AI9838'STATION.

*** retrieval complete.

Elapsed Time = 00:00:01

The NGS Data Sheet

See file [dsdata.pdf](#) for more information about the datasheet.

PROGRAM = datasheet95, VERSION = 8.12.5.11

Starting Datasheet Retrieval...

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1      National Geodetic Survey,   Retrieval Date = JANUARY 22, 2021
DG7715 *****
DG7715 CBN          -   This is a Cooperative Base Network Control Station.
DG7715 DESIGNATION -   PINSON 1
DG7715 PID          -   DG7715
DG7715 STATE/COUNTY-   TN/MADISON
DG7715 COUNTRY      -   US
DG7715 USGS QUAD    -   HENDERSON (2019)
DG7715
DG7715                      *CURRENT SURVEY CONTROL
DG7715
DG7715* NAD 83(2011) POSITION- 35 29 56.62390(N) 088 41 46.75033(W) ADJUSTED
DG7715* NAD 83(2011) ELLIP HT- 102.250 (meters) (06/27/12) ADJUSTED
DG7715* NAD 83(2011) EPOCH   - 2010.00
DG7715* NAVD 88 ORTHO HEIGHT - 130.4 (meters) 428. (feet) GPS OBS
DG7715
DG7715 NAVD 88 orthometric height was determined with geoid model GEOID03
DG7715 GEOID HEIGHT      -      -28.161 (meters) GEOID03
DG7715 GEOID HEIGHT      -      -28.175 (meters) GEOID18
DG7715 NAD 83(2011) X    - 118,275.198 (meters) COMP
DG7715 NAD 83(2011) Y    - -5,197,209.225 (meters) COMP
DG7715 NAD 83(2011) Z    - 3,683,142.645 (meters) COMP
DG7715 LAPLACE CORR      -      0.89 (seconds) DEFLEC18
DG7715
DG7715 Network accuracy estimates per FGDC Geospatial Positioning Accuracy
DG7715 Standards:
DG7715          FGDC (95% conf, cm)          Standard deviation (cm)          CorrNE
DG7715          Horiz Ellip                  SD_N   SD_E   SD_h          (unitless)
DG7715 -----
DG7715 NETWORK      0.88   1.96                0.39   0.32   1.00          0.06149252
DG7715 -----
DG7715 Click here for local accuracies and other accuracy information.
DG7715
DG7715
DG7715.The horizontal coordinates were established by GPS observations
DG7715.and adjusted by the National Geodetic Survey in June 2012.
DG7715
DG7715.NAD 83(2011) refers to NAD 83 coordinates where the reference frame has
DG7715.been affixed to the stable North American tectonic plate. See
DG7715.NA2011 for more information.
DG7715
DG7715.The horizontal coordinates are valid at the epoch date displayed above
DG7715.which is a decimal equivalence of Year/Month/Day.
DG7715
DG7715.The orthometric height was determined by GPS observations and a
DG7715.high-resolution geoid model.

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DG7715

DG7715

STATION DESCRIPTION

DG7715

DG7715'DESCRIBED BY TN DEPT OF TRANSP 2003 (BES)

DG7715'ALUMINUM DISK ATOP .625 INCH REBAR, STAMPED--PINSON-1--, DRIVEN FLUSH.

DG7715'FROM THE JUNCTION OF SR 5 (US 45) AND SR 197 (OZIER ROAD) IN PINSON,

DG7715'GO EASTERLY ON SR 197 FOR 2.0 MILES TO A GRAVEL ENTRANCE WITH METAL

DG7715'GRATE ON RIGHT TO PINSON REFORESTATION COMPLEX, THENCE SOUTHERLY ON

DG7715'GRAVEL ENTRANCE FOR 0.2 MILES TO A TEE INTERSECTION, TURN RIGHT AND GO

DG7715'WESTERLY FOR 0.1 MILE TO A DIRT FIELD RD ON THE LEFT, THENCE SOUTHERLY

DG7715'ON FIELD ROAD FOR 200 FEET TO THE STATION ON THE RIGHT (WEST).

DG7715'

DG7715'THE STATION IS LOCATED 196 FT SOUTH OF THE SOUTH END OF A 10 INCH CMP,

DG7715'56 FT SOUTH SOTUHWEST OF AN ORANGE PARK BOUNDARY MARKER, 36 FT WEST

DG7715'NORTHWEST OF THE CENTER OF A DIRT ROAD, AND 1.50 FT EAST SOUTHEAST OF

DG7715'AN ORANGE WITNESS POST.

*** retrieval complete.

Elapsed Time = 00:00:01

The NGS Data Sheet

See file [dsdata.pdf](#) for more information about the datasheet.

PROGRAM = datasheet95, VERSION = 8.12.5.11

Starting Datasheet Retrieval...

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1      National Geodetic Survey,   Retrieval Date = JANUARY 22, 2021
DG7716 *****
DG7716 CBN          -   This is a Cooperative Base Network Control Station.
DG7716 DESIGNATION -   PINSON 2
DG7716 PID          -   DG7716
DG7716 STATE/COUNTY-   TN/MADISON
DG7716 COUNTRY      -   US
DG7716 USGS QUAD    -   HENDERSON (2019)
DG7716
DG7716                      *CURRENT SURVEY CONTROL
DG7716
DG7716* NAD 83(2011) POSITION- 35 29 57.62993(N) 088 42 01.59073(W) ADJUSTED
DG7716* NAD 83(2011) ELLIP HT- 103.170 (meters) (06/27/12) ADJUSTED
DG7716* NAD 83(2011) EPOCH   - 2010.00
DG7716* NAVD 88 ORTHO HEIGHT - 131.4 (meters) 431. (feet) GPS OBS
DG7716
DG7716 NAVD 88 orthometric height was determined with geoid model GEOID03
DG7716 GEOID HEIGHT   -      -28.164 (meters) GEOID03
DG7716 GEOID HEIGHT   -      -28.177 (meters) GEOID18
DG7716 NAD 83(2011) X - 117,900.876 (meters) COMP
DG7716 NAD 83(2011) Y - -5,197,200.470 (meters) COMP
DG7716 NAD 83(2011) Z - 3,683,168.422 (meters) COMP
DG7716 LAPLACE CORR   -      0.86 (seconds) DEFLEC18
DG7716
DG7716 Network accuracy estimates per FGDC Geospatial Positioning Accuracy
DG7716 Standards:
DG7716          FGDC (95% conf, cm)      Standard deviation (cm)      CorrNE
DG7716          Horiz Ellip              SD_N   SD_E   SD_h      (unitless)
DG7716 -----
DG7716 NETWORK      0.88   1.94              0.39   0.32   0.99      -0.03497496
DG7716 -----
DG7716 Click here for local accuracies and other accuracy information.
DG7716
DG7716
DG7716.The horizontal coordinates were established by GPS observations
DG7716.and adjusted by the National Geodetic Survey in June 2012.
DG7716
DG7716.NAD 83(2011) refers to NAD 83 coordinates where the reference frame has
DG7716.been affixed to the stable North American tectonic plate. See
DG7716.NA2011 for more information.
DG7716
DG7716.The horizontal coordinates are valid at the epoch date displayed above
DG7716.which is a decimal equivalence of Year/Month/Day.
DG7716
DG7716.The orthometric height was determined by GPS observations and a
DG7716.high-resolution geoid model.

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DG7716

DG7716

STATION DESCRIPTION

DG7716

DG7716'DESCRIBED BY TN DEPT OF TRANSP 2003 (DF)

DG7716'ALUMINUM DISK ATOP .625 INCH REBAR STAMPED--PINSON 2--, DRIVEN FLUSH.

DG7716'

DG7716'FROM THE JCT OF SR 5 (US 45) AND SR 197 (OZIER ROAD) IN PINSON, GO

DG7716'EASTERLY ON SR 197 FOR 2.0 MILES TO A GRAVEL ENT WITH A METAL GATE ON

DG7716'RIGHT TO PINSON REFORESTATION COMPLEX, THENCE SOUTHERLY ON GRAVEL ENT

DG7716'FOR 2.0 MILES TO TEE INTERSECTION, TURN RIGHT AND GO WESTERLY FOR 0.4

DG7716'MILE TO THE STATION ON THE LEFT (SOUTH).

DG7716'

DG7716'THE MARK IS 192 FT EAST OF A POWER POLE, 89 FT SOUTH OF THE CENTER OF

DG7716'A DIRT ROAD, AND 1.20 FT SOUTH OF AN ORANGE WITNESS POST.

*** retrieval complete.

Elapsed Time = 00:00:02

The NGS Data Sheet

See file [dsdata.pdf](#) for more information about the datasheet.

PROGRAM = datasheet95, VERSION = 8.12.5.11

Starting Datasheet Retrieval...

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1      National Geodetic Survey,      Retrieval Date = JANUARY 22, 2021
FE0695 *****
FE0695 DESIGNATION - Q 160
FE0695 PID - FE0695
FE0695 STATE/COUNTY- TN/GIBSON
FE0695 COUNTRY - US
FE0695 USGS QUAD - MILAN (2019)
FE0695
FE0695 *CURRENT SURVEY CONTROL
FE0695
FE0695* NAD 83(2011) POSITION- 35 52 50.91540(N) 088 45 32.70378(W) ADJUSTED
FE0695* NAD 83(2011) ELLIP HT- 111.122 (meters) (06/27/12) ADJUSTED
FE0695* NAD 83(2011) EPOCH - 2010.00
FE0695* NAVD 88 ORTHO HEIGHT - 139.349 (meters) 457.18 (feet) ADJUSTED
FE0695
FE0695 GEOID HEIGHT - -28.329 (meters) GEOID18
FE0695 NAD 83(2011) X - 112,046.836 (meters) COMP
FE0695 NAD 83(2011) Y - -5,172,637.785 (meters) COMP
FE0695 NAD 83(2011) Z - 3,717,549.404 (meters) COMP
FE0695 LAPLACE CORR - -0.51 (seconds) DEFLEC18
FE0695 DYNAMIC HEIGHT - 139.228 (meters) 456.78 (feet) COMP
FE0695 MODELED GRAVITY - 979,763.1 (mgal) NAVD 88
FE0695
FE0695 VERT ORDER - FIRST CLASS II
FE0695
FE0695 Network accuracy estimates per FGDC Geospatial Positioning Accuracy
FE0695 Standards:
FE0695 FGDC (95% conf, cm) Standard deviation (cm) CorrNE
FE0695 Horiz Ellip SD_N SD_E SD_h (unitless)
FE0695 -----
FE0695 NETWORK 1.00 3.02 0.43 0.38 1.54 0.13952997
FE0695 -----
FE0695 Click here for local accuracies and other accuracy information.
FE0695
FE0695
FE0695.The horizontal coordinates were established by GPS observations
FE0695.and adjusted by the National Geodetic Survey in June 2012.
FE0695
FE0695.NAD 83(2011) refers to NAD 83 coordinates where the reference frame has
FE0695.been affixed to the stable North American tectonic plate. See
FE0695.NA2011 for more information.
FE0695
FE0695.The horizontal coordinates are valid at the epoch date displayed above
FE0695.which is a decimal equivalence of Year/Month/Day.
FE0695
FE0695.The orthometric height was determined by differential leveling and

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FE0695.adjusted by the NATIONAL GEODETIC SURVEY
 FE0695.in June 1991.
 FE0695
 FE0695.Significant digits in the geoid height do not necessarily reflect accuracy.
 FE0695.GEOID18 height accuracy estimate available [here](#).
 FE0695
 FE0695.Click [photographs](#) - Photos may exist for this station.
 FE0695
 FE0695.The X, Y, and Z were computed from the position and the ellipsoidal ht.
 FE0695
 FE0695.The Laplace correction was computed from DEFLEC18 derived deflections.
 FE0695
 FE0695.The ellipsoidal height was determined by GPS observations
 FE0695.and is referenced to NAD 83.
 FE0695
 FE0695.The dynamic height is computed by dividing the NAVD 88
 FE0695.geopotential number by the normal gravity value computed on the
 FE0695.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
 FE0695.degrees latitude (g = 980.6199 gals.).
 FE0695
 FE0695.The modeled gravity was interpolated from observed gravity values.
 FE0695
 FE0695. The following values were computed from the NAD 83(2011) position.
 FE0695

	North	East	Units	Scale	Factor	Converg.
FE0695;SPC TN	- 175,202.507	350,902.751	MT	0.99994873	-1 36	55.0
FE0695;SPC TN	- 574,810.23	1,151,253.44	sFT	0.99994873	-1 36	55.0
FE0695;UTM 16	- 3,972,157.561	341,211.806	MT	0.99991069	-1 01	52.4

	Elev Factor	x	Scale Factor	=	Combined Factor
FE0695!SPC TN	- 0.99998256	x	0.99994873	=	0.99993129
FE0695!UTM 16	- 0.99998256	x	0.99991069	=	0.99989325

 FE0695_U.S. NATIONAL GRID SPATIAL ADDRESS: 16SCE4121172157(NAD 83)
 FE0695
 FE0695 SUPERSEDED SURVEY CONTROL
 FE0695

FE0695	NAD 83(2007)-	35 52 50.91547(N)	088 45 32.70479(W)	AD(2002.00)	0
FE0695	ELLIP H (02/10/07)	111.138 (m)		GP(2002.00)	
FE0695	NAD 83(1995)-	35 52 50.91504(N)	088 45 32.70468(W)	AD()	1
FE0695	ELLIP H (02/20/01)	111.163 (m)		GP()	2 1
FE0695	NAVD 88	139.35 (m)	457.2 (f)	LEVELING	3
FE0695	NGVD 29 (11/26/84)	139.401 (m)	457.35 (f)	ADJUSTED	1 2

 FE0695.Superseded values are not recommended for survey control.
 FE0695
 FE0695.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.
 FE0695.See file [dsdata.pdf](#) to determine how the superseded data were derived.
 FE0695
 FE0695_MARKER: DB = BENCH MARK DISK
 FE0695_SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT
 FE0695_STAMPING: Q 160 1944
 FE0695_MARK LOGO: CGS
 FE0695_PROJECTION: PROJECTING

FE0695_MAGNETIC: N = NO MAGNETIC MATERIAL
 FE0695_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO
 FE0695+STABILITY: SURFACE MOTION
 FE0695_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
 FE0695+SATELLITE: SATELLITE OBSERVATIONS - April 18, 2011

FE0695	HISTORY	- Date	Condition	Report By
FE0695	HISTORY	- 1944	MONUMENTED	CGS
FE0695	HISTORY	- 1948	GOOD	CGS
FE0695	HISTORY	- 1999	GOOD	LOWE
FE0695	HISTORY	- 20020914	GOOD	USACE
FE0695	HISTORY	- 20050623	GOOD	CAS
FE0695	HISTORY	- 20110418	GOOD	JCLS

FE0695

FE0695 STATION DESCRIPTION

FE0695

FE0695'DESCRIBED BY COAST AND GEODETIC SURVEY 1948

FE0695'2.8 MI S FROM MILAN.

FE0695'2.75 MILES SOUTH ALONG THE ILLINOIS CENTRAL RAILROAD FROM THE

FE0695'STATION AT MILAN, 204 FEET SOUTH-SOUTHEAST AND ACROSS THE

FE0695'TRACK FROM MILE POST C 451, AT A PUBLIC BLACK TOP ROAD CROSSING,

FE0695'27 FEET EAST OF THE EAST RAIL, 32 FEET NORTH OF THE CENTER

FE0695'LINE OF THE BLACK TOP ROAD, 4.5 FEET NORTH OF A POWER POLE,

FE0695'13.2 FEET NORTHEAST OF THE CROSSING SIGN, 2.5 FEET SOUTH OF A

FE0695'WHITE WOODEN WITNESS POST, 1 FOOT ABOVE THE TRACK AND SET IN THE

FE0695'TOP OF A CONCRETE POST PROJECTING 3 INCHES.

FE0695

FE0695 STATION RECOVERY (1999)

FE0695

FE0695'RECOVERY NOTE BY LOWE ENGINEERS 1999

FE0695'RECOVERY NOTE BY LOWE ENGINEERS 1999

FE0695'RECOVERED IN GOOD CONDITION.

FE0695'

FE0695'THE STATION IS LOCATED APPROXIMATELY 4.34 KM (2.7 MI) SOUTH OF MILAN

FE0695'ADJACENT TO THE RAILROAD.

FE0695'

FE0695'TO REACH THE STATION FROM THE JUNCTION OF HIGHWAYS 45E AND 79/70A

FE0695'IN MILAN, GO SOUTH 4.18 KM (2.6 MI) ON HIGHWAY 45E TO THE JUNCTION OF

FE0695'STATE HIGHWAY 187, TURN RIGHT AND GO WEST 1.13 KM (0.7 MI) ON

FE0695'HIGHWAY 187 TO A RAILROAD CROSSING AND THE STATION ON THE RIGHT,

FE0695'BEFORE CROSSING THE RAILROAD.

FE0695'

FE0695'THE STATION IS A STANDARD CGS DISK SET IN THE TOP OF A CONCRETE

FE0695'POST PROJECTING 0.15 M (0.5 FT), STAMPED Q 160. THE STATION IS 18.38 M

FE0695'(60.3 FT) SOUTHEAST OF MP 451 ON THE RAILROAD, 9.42 M (30.9 FT) NORTH

FE0695'OF THE CENTERLINE OF STATE HIGHWAY 187, 8.47 M (27.8 FT) EAST OF THE

FE0695'EAST RAIL OF THE RAILROAD, AND 1.34 M (4.4 FT) NORTH OF A POWER POLE.

FE0695

FE0695 STATION RECOVERY (2002)

FE0695

FE0695'RECOVERY NOTE BY US ARMY CORPS OF ENGINEERS 2002 (JMH)

FE0695'RECOVERED IN GOOD CONDITION.

FE0695

FE0695 STATION RECOVERY (2005)

FE0695

FE0695'RECOVERY NOTE BY CONTINENTAL AERIAL SURVEY INCO 2005 (JCA)
FE0695'RECOVERED IN GOOD CONDITION.

FE0695

FE0695

STATION RECOVERY (2011)

FE0695

FE0695'RECOVERY NOTE BY JOHN CHANCE LAND SURVEYS INC 2011

FE0695'RECOVERED IN GOOD CONDITION.

*** retrieval complete.

Elapsed Time = 00:00:02

The NGS Data Sheet

See file [dsdata.pdf](#) for more information about the datasheet.

PROGRAM = datasheet95, VERSION = 8.12.5.11

Starting Datasheet Retrieval...

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1      National Geodetic Survey,      Retrieval Date = JANUARY 22, 2021
GD1118 *****
GD1118 DESIGNATION - R 264
GD1118 PID - GD1118
GD1118 STATE/COUNTY- TN/DYER
GD1118 COUNTRY - US
GD1118 USGS QUAD - DYERSBURG (2019)
GD1118
GD1118 *CURRENT SURVEY CONTROL
GD1118
GD1118* NAD 83(2011) POSITION- 36 00 02.50579(N) 089 23 48.05538(W) NO CHECK
GD1118* NAD 83(2011) ELLIP HT- 56.239 (meters) (06/27/12) NO CHECK
GD1118* NAD 83(2011) EPOCH - 2010.00
GD1118* NAVD 88 ORTHO HEIGHT - 84.458 (meters) 277.09 (feet) ADJUSTED
GD1118
GD1118 GEOID HEIGHT - -28.222 (meters) GEOID18
GD1118 NAD 83(2011) X - 54,396.367 (meters) COMP
GD1118 NAD 83(2011) Y - -5,165,712.482 (meters) COMP
GD1118 NAD 83(2011) Z - 3,728,287.216 (meters) COMP
GD1118 LAPLACE CORR - -0.03 (seconds) DEFLEC18
GD1118 DYNAMIC HEIGHT - 84.386 (meters) 276.86 (feet) COMP
GD1118 MODELED GRAVITY - 979,787.2 (mgal) NAVD 88
GD1118
GD1118 VERT ORDER - FIRST CLASS I
GD1118
GD1118 Network accuracy estimates per FGDC Geospatial Positioning Accuracy
GD1118 Standards:
GD1118 FGDC (95% conf, cm) Standard deviation (cm) CorrNE
GD1118 Horiz Ellip SD_N SD_E SD_h (unitless)
GD1118 -----
GD1118 NETWORK 0.68 1.02 0.31 0.24 0.52 -0.02798103
GD1118 -----
GD1118 Click here for local accuracies and other accuracy information.
GD1118
GD1118
GD1118.The horizontal coordinates were established by GPS observations
GD1118.and adjusted by the National Geodetic Survey in June 2012.
GD1118
GD1118.NAD 83(2011) refers to NAD 83 coordinates where the reference frame has
GD1118.been affixed to the stable North American tectonic plate. See
GD1118.NA2011 for more information.
GD1118
GD1118.The horizontal coordinates are valid at the epoch date displayed above
GD1118.which is a decimal equivalence of Year/Month/Day.
GD1118
GD1118.No horizontal observational check was made to the station.

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GD1118_STAMPING: R 264 1974
 GD1118_MARK LOGO: NGS
 GD1118_PROJECTION: FLUSH
 GD1118_MAGNETIC: N = NO MAGNETIC MATERIAL
 GD1118_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO
 GD1118+STABILITY: SURFACE MOTION
 GD1118_SATELLITE: THE SITE LOCATION WAS REPORTED AS NOT SUITABLE FOR
 GD1118+SATELLITE: SATELLITE OBSERVATIONS - April 19, 2002

GD1118	HISTORY	- Date	Condition	Report By
GD1118	HISTORY	- 1974	MONUMENTED	NGS
GD1118	HISTORY	- 1999	GOOD	LOWE
GD1118	HISTORY	- 20020419	GOOD	USACE

GD1118

GD1118 STATION DESCRIPTION

GD1118

GD1118'DESCRIBED BY NATIONAL GEODETIC SURVEY 1974
 GD1118'2.2 MI S FROM DYERSBURG.
 GD1118'ABOUT 2.25 MILES SOUTH ALONG U.S. HIGHWAY 51 FROM THE COURT HOUSE
 GD1118'AT DYERSBURG, ALSO 2.25 MILES NORTH ALONG U.S. HIGHWAY 51 FROM THE
 GD1118'FOWLKES BAPTIST CHURCH, ABOUT 0.30 MILE SOUTH ALONG U.S. HIGHWAY
 GD1118'51 FROM THE JUNCTION OF U.S. HIGHWAY 51 AND BYPASS U.S. HIGHWAY
 GD1118'51, ABOUT 0.05 MILE SOUTH OF A ROAD LEADING WEST TO THE DYERSBURG
 GD1118'MUNICIPAL AIRPORT, SET BETWEEN TWO LARGE POWER POLES WITH THREE
 GD1118'TRANSFORMERS BETWEEN THEM, 63.8 FEET EAST OF THE CENTER LINE OF THE
 GD1118'HIGHWAY, 7 FEET SOUTH OF THE MOST NORTHERLY ONE OF TWO POWER
 GD1118'POLES 36, 6.6 FEET NORTH OF THE MOST SOUTHERLY ONE OF TWO POWER
 GD1118'POLES 36 1/2, 3 FEET BELOW LEVEL OF THE HIGHWAY AND ON THE TOP
 GD1118'OF A 4-FOOT COPPER COATED STEEL ROD THAT IS ATTACHED TO AND ON
 GD1118'THE TOP OF A 4-FOOT COPPER COATED STEEL ROD THAT IS ATTACHED TO
 GD1118'A METAL BASE PLATE. THE DISK IS FLUSH WITH THE GROUND AND
 GD1118'PROTECTED BY A 4-INCH PLASTIC PIPE PROJECTING 0.2 FOOT.

GD1118

GD1118 STATION RECOVERY (1999)

GD1118

GD1118'RECOVERY NOTE BY LOWE ENGINEERS 1999
 GD1118'RECOVERED 1999
 GD1118'RECOVERED IN GOOD CONDITION.

GD1118

GD1118 STATION RECOVERY (2002)

GD1118

GD1118'RECOVERY NOTE BY US ARMY CORPS OF ENGINEERS 2002 (JMH)
 GD1118'RECOVERED IN GOOD CONDITION.

*** retrieval complete.

Elapsed Time = 00:00:02

The NGS Data Sheet

See file [dsdata.pdf](#) for more information about the datasheet.

PROGRAM = datasheet95, VERSION = 8.12.5.11

Starting Datasheet Retrieval...

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1      National Geodetic Survey,   Retrieval Date = JANUARY 22, 2021
DG7702 *****
DG7702 CBN          -   This is a Cooperative Base Network Control Station.
DG7702 DESIGNATION -   REGION 4
DG7702 PID          -   DG7702
DG7702 STATE/COUNTY-   TN/MADISON
DG7702 COUNTRY      -   US
DG7702 USGS QUAD    -   ADAIR (2019)
DG7702
DG7702                      *CURRENT SURVEY CONTROL
DG7702
DG7702* NAD 83(2011) POSITION- 35 38 21.48829(N) 088 55 11.49441(W) ADJUSTED
DG7702* NAD 83(2011) ELLIP HT-   80.189 (meters)                (06/27/12) ADJUSTED
DG7702* NAD 83(2011) EPOCH   - 2010.00
DG7702* NAVD 88 ORTHO HEIGHT - 108.4 (meters)                356. (feet) GPS OBS
DG7702
DG7702 NAVD 88 orthometric height was determined with an earlier geoid model
DG7702 GEOID HEIGHT   -   -28.213 (meters)                      GEOID18
DG7702 NAD 83(2011) X -   97,826.430 (meters)                   COMP
DG7702 NAD 83(2011) Y -  -5,188,563.757 (meters)                COMP
DG7702 NAD 83(2011) Z -   3,695,786.534 (meters)                COMP
DG7702 LAPLACE CORR  -   -0.98 (seconds)                        DEFLEC18
DG7702
DG7702 Network accuracy estimates per FGDC Geospatial Positioning Accuracy
DG7702 Standards:
DG7702          FGDC (95% conf, cm)      Standard deviation (cm)      CorrNE
DG7702          Horiz Ellip              SD_N   SD_E   SD_h          (unitless)
DG7702 -----
DG7702 NETWORK      0.20   0.47              0.09   0.07   0.24          -0.04291877
DG7702 -----
DG7702 Click here for local accuracies and other accuracy information.
DG7702
DG7702
DG7702.The horizontal coordinates were established by GPS observations
DG7702.and adjusted by the National Geodetic Survey in June 2012.
DG7702
DG7702.NAD 83(2011) refers to NAD 83 coordinates where the reference frame has
DG7702.been affixed to the stable North American tectonic plate. See
DG7702.NA2011 for more information.
DG7702
DG7702.The horizontal coordinates are valid at the epoch date displayed above
DG7702.which is a decimal equivalence of Year/Month/Day.
DG7702
DG7702.The orthometric height was determined by GPS observations and a
DG7702.high-resolution geoid model.
DG7702

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DG7702. Significant digits in the geoid height do not necessarily reflect accuracy.

DG7702. GEOID18 height accuracy estimate available [here](#).

DG7702

DG7702. Click [photographs](#) - Photos may exist for this station.

DG7702

DG7702. The X, Y, and Z were computed from the position and the ellipsoidal ht.

DG7702

DG7702. The Laplace correction was computed from DEFLEC18 derived deflections.

DG7702

DG7702. The ellipsoidal height was determined by GPS observations

DG7702. and is referenced to NAD 83.

DG7702

DG7702. The following values were computed from the NAD 83(2011) position.

DG7702

DG7702;		North	East	Units	Scale	Factor	Converg.
DG7702;SPC TN	-	148,840.541	335,592.440	MT	0.99995415	-1 42	33.8
DG7702;SPC TN	-	488,321.01	1,101,022.86	sFT	0.99995415	-1 42	33.8
DG7702;UTM 16	-	3,945,640.319	326,172.585	MT	0.99997236	-1 07	08.2

DG7702

DG7702! - Elev Factor x Scale Factor = Combined Factor

DG7702!SPC TN - 0.99998741 x 0.99995415 = 0.99994156

DG7702!UTM 16 - 0.99998741 x 0.99997236 = 0.99995977

DG7702

DG7702 U.S. NATIONAL GRID SPATIAL ADDRESS: 16SCE2617245640 (NAD 83)

DG7702

SUPERSEDED SURVEY CONTROL

DG7702

DG7702	NAD 83(2007)-	35 38	21.48820 (N)	088 55	11.49518 (W)	AD(2002.00)	A
DG7702	ELLIP H (10/16/11)		80.209 (m)			GP(2002.00)	3 2
DG7702	NAD 83(2007)-	35 38	21.48847 (N)	088 55	11.49529 (W)	AD(2002.00)	0
DG7702	ELLIP H (02/10/07)		80.214 (m)			GP(2002.00)	
DG7702	NAD 83(1995)-	35 38	21.48832 (N)	088 55	11.49535 (W)	AD()	A
DG7702	ELLIP H (08/03/04)		80.208 (m)			GP()	4 1
DG7702	NAVD 88 (08/03/04)		108.4 (m)			GEOID03 model used	GPS OBS

DG7702

DG7702. Superseded values are not recommended for survey control.

DG7702

DG7702. NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.

DG7702. See file [dsdata.pdf](#) to determine how the superseded data were derived.

DG7702

DG7702_MARKER: DD = SURVEY DISK

DG7702_SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT

DG7702_STAMPING: REGION 4

DG7702_MARK LOGO: TNHD

DG7702_MAGNETIC: N = NO MAGNETIC MATERIAL

DG7702_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO

DG7702+STABILITY: SURFACE MOTION

DG7702_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR

DG7702+SATELLITE: SATELLITE OBSERVATIONS - October 10, 2003

DG7702

DG7702	HISTORY	- Date	Condition	Report By
DG7702	HISTORY	- 20031010	MONUMENTED	TNHD

DG7702

DG7702

STATION DESCRIPTION

DG7702

DG7702'DESCRIBED BY TN HIGHWAY DEPT 2003 (BES)

DG7702'TO REACH THE STATION FROM THE INTERSECTION OF I-40 AND SR 223, GO
DG7702'SOUTH ON 223 FOR 0.4 MILE TO LOWER BROWNSVILLE ROAD ON LEFT, GO 0.1
DG7702'MILE ON LOWER BROWNSVILLE ROAD AND TURN LEFT AT TDOT ENTRANCE, GO
DG7702'NORTHERLY DIRECTION FOR 0.3 MILE TO STATION ON RIGHT.

*** retrieval complete.

Elapsed Time = 00:00:01

The NGS Data Sheet

See file [dsdata.pdf](#) for more information about the datasheet.

PROGRAM = datasheet95, VERSION = 8.12.5.11

Starting Datasheet Retrieval...

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1      National Geodetic Survey,      Retrieval Date = JANUARY 22, 2021
GD1105 *****
GD1105 DESIGNATION - S 8 5
GD1105 PID - GD1105
GD1105 STATE/COUNTY- TN/DYER
GD1105 COUNTRY - US
GD1105 USGS QUAD - DYERSBURG (2019)
GD1105
GD1105 *CURRENT SURVEY CONTROL
GD1105
GD1105* NAD 83(2011) POSITION- 36 05 58.50515(N) 089 25 14.30892(W) ADJUSTED
GD1105* NAD 83(2011) ELLIP HT- 98.700 (meters) (06/27/12) ADJUSTED
GD1105* NAD 83(2011) EPOCH - 2010.00
GD1105* NAVD 88 ORTHO HEIGHT - 127.031 (meters) 416.77 (feet) ADJUSTED
GD1105
GD1105 GEOID HEIGHT - -28.304 (meters) GEOID18
GD1105 NAD 83(2011) X - 52,171.274 (meters) COMP
GD1105 NAD 83(2011) Y - -5,159,312.009 (meters) COMP
GD1105 NAD 83(2011) Z - 3,737,183.751 (meters) COMP
GD1105 LAPLACE CORR - -0.13 (seconds) DEFLEC18
GD1105 DYNAMIC HEIGHT - 126.923 (meters) 416.41 (feet) COMP
GD1105 MODELED GRAVITY - 979,783.5 (mgal) NAVD 88
GD1105
GD1105 VERT ORDER - FIRST CLASS I
GD1105
GD1105 Network accuracy estimates per FGDC Geospatial Positioning Accuracy
GD1105 Standards:
GD1105 FGDC (95% conf, cm) Standard deviation (cm) CorrNE
GD1105 Horiz Ellip SD_N SD_E SD_h (unitless)
GD1105 -----
GD1105 NETWORK 2.39 3.04 1.07 0.86 1.55 -0.04997722
GD1105 -----
GD1105 Click here for local accuracies and other accuracy information.
GD1105
GD1105
GD1105.The horizontal coordinates were established by GPS observations
GD1105.and adjusted by the National Geodetic Survey in June 2012.
GD1105
GD1105.NAD 83(2011) refers to NAD 83 coordinates where the reference frame has
GD1105.been affixed to the stable North American tectonic plate. See
GD1105.NA2011 for more information.
GD1105
GD1105.The horizontal coordinates are valid at the epoch date displayed above
GD1105.which is a decimal equivalence of Year/Month/Day.
GD1105
GD1105.The orthometric height was determined by differential leveling and

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GD1105.adjusted by the NATIONAL GEODETIC SURVEY

GD1105.in June 1991.

GD1105

GD1105.Significant digits in the geoid height do not necessarily reflect accuracy.

GD1105.GEOID18 height accuracy estimate available [here](#).

GD1105

GD1105.Click [photographs](#) - Photos may exist for this station.

GD1105

GD1105.The X, Y, and Z were computed from the position and the ellipsoidal ht.

GD1105

GD1105.The Laplace correction was computed from DEFLEC18 derived deflections.

GD1105

GD1105.The ellipsoidal height was determined by GPS observations

GD1105.and is referenced to NAD 83.

GD1105

GD1105.The dynamic height is computed by dividing the NAVD 88

GD1105.geopotential number by the normal gravity value computed on the

GD1105.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45

GD1105.degrees latitude (g = 980.6199 gals.).

GD1105

GD1105.The modeled gravity was interpolated from observed gravity values.

GD1105

GD1105. The following values were computed from the NAD 83(2011) position.

GD1105

GD1105;		North	East	Units	Scale Factor	Converg.
GD1105;SPC TN	-	201,347.163	292,045.889	MT	0.99995910	-2 00 09.3
GD1105;SPC TN	-	660,586.48	958,153.89	sFT	0.99995910	-2 00 09.3
GD1105;UTM 16	-	3,997,707.046	282,087.977	MT	1.00018513	-1 25 36.4

GD1105

GD1105! Elev Factor x Scale Factor = Combined Factor

GD1105!SPC TN - 0.99998451 x 0.99995910 = 0.99994361

GD1105!UTM 16 - 0.99998451 x 1.00018513 = 1.00016964

GD1105

GD1105_U.S. NATIONAL GRID SPATIAL ADDRESS: 16SBE8208797707(NAD 83)

GD1105

GD1105 SUPERSEDED SURVEY CONTROL

GD1105

GD1105	NAD 83(2007)-	36 05 58.50520(N)	089 25 14.30983(W)	AD(2002.00)	0
GD1105	ELLIP H (02/10/07)	98.727 (m)		GP(2002.00)	
GD1105	NAD 83(1995)-	36 05 58.50473(N)	089 25 14.30899(W)	AD()	1
GD1105	ELLIP H (05/31/05)	98.744 (m)		GP()	4 2
GD1105	NAD 83(1995)-	36 05 58.50719(N)	089 25 14.30721(W)	AD()	2
GD1105	NAD 83(1993)-	36 05 58.51066(N)	089 25 14.30784(W)	AD()	2
GD1105	NAD 83(1990)-	36 05 58.51061(N)	089 25 14.30779(W)	AD()	2
GD1105	NAD 83(1986)-	36 05 58.51858(N)	089 25 14.30706(W)	AD()	2
GD1105	NAD 27	- 36 05 58.26320(N)	089 25 14.04370(W)	AD()	2
GD1105	NAVD 88	127.03 (m)	416.8 (f)	LEVELING	3
GD1105	NGVD 29 (11/26/84)	126.957 (m)	416.52 (f)	ADJUSTED	1 1

GD1105

GD1105.Superseded values are not recommended for survey control.

GD1105

GD1105.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.

GD1105.See file [dsdata.pdf](#) to determine how the superseded data were derived.

GD1105

GD1105_MARKER: DD = SURVEY DISK
 GD1105_SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT
 GD1105_STAMPING: S-8-5
 GD1105_MARK LOGO: USACE
 GD1105_MAGNETIC: N = NO MAGNETIC MATERIAL
 GD1105_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO
 GD1105+STABILITY: SURFACE MOTION
 GD1105_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
 GD1105+SATELLITE: SATELLITE OBSERVATIONS - July 08, 2003

GD1105
 GD1105 HISTORY - Date Condition Report By
 GD1105 HISTORY - 1959 MONUMENTED USACE
 GD1105 HISTORY - 1967 GOOD CGS
 GD1105 HISTORY - 1974 GOOD NGS
 GD1105 HISTORY - 20020730 GOOD USACE
 GD1105 HISTORY - 20030708 GOOD EMCINC

GD1105
 GD1105 STATION DESCRIPTION
 GD1105

GD1105'DESCRIBED BY US ARMY CORPS OF ENGINEERS 1959 (GWM)
 GD1105'S-8-5 (USED) IS 45 FEET EAST OF THE CENTER OF A GRAVELED DRIVE, 41
 GD1105'FEET WEST OF A TELEPHONE POLE AND 34 FEET NORTHEAST OF THE
 GD1105'APPROXIMATE CENTER OF STATE ROUTE 78. IT IS A U.S. ENGINEERING
 GD1105'DEPARTMENT DISK SET IN THE TOP OF AN 8-INCH, SQUARE, CONCRETE
 GD1105'MONUMENT THAT PROJECTS 4 INCHES AND THE DISK IS STAMPED S-8-5.

GD1105
 GD1105 STATION RECOVERY (1967)
 GD1105

GD1105'RECOVERY NOTE BY COAST AND GEODETIC SURVEY 1967 (LFS)
 GD1105'THIS STATION WAS RECOVERED AND FOUND IN GOOD CONDITION. A COMPLETE
 GD1105'DESCRIPTION OF THE MARK IS GIVEN IN THE BODY OF THE DESCRIPTION FOR
 GD1105'TRIANGULATION STATION NAUVOO 1959. SEE DESCRIPTION THEREOF.

GD1105'
 GD1105'AIRLINE DISTANCE AND DIRECTION FROM NEAREST TOWN - ABOUT 5 MILES
 GD1105'NORTHWEST OF DYERSBURG.

GD1105
 GD1105 STATION RECOVERY (1974)
 GD1105

GD1105'RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1974
 GD1105'3.20 MI NW FROM DYERSBURG.
 GD1105'ABOUT 3.20 MILES NORTHWEST ALONG STATE HIGHWAY 78 FROM ITS
 GD1105'INTERSECTION WITH U.S. HIGHWAY 51 BY-PASS, SET IN A LAWN NEAR THE
 GD1105'JUNCTION OF STATE HIGHWAY 78 AND A PAVED ROAD LEADING WEST AND ANOTHER
 GD1105'ROAD LEADING SOUTH, 198.3 FEET NORTHWEST OF NAUVOO TRIANGULATION
 GD1105'STATION, 41.3 FEET NORTHWEST OF A POWER POLE WITH TRANSFORMER AND TWO
 GD1105'GUY WIRES, 36.7 FEET NORTH OF THE JUNCTION OF PAVED ROAD LEADING SOUTH
 GD1105'AND STATE HIGHWAY 78, 33.7 FEET NORTHEAST OF THE CENTER LINE OF THE
 GD1105'HIGHWAY, 41.2 FEET SOUTHEAST OF THE NORTHWEST DRIVEWAY OF TWO HOUSES,
 GD1105'2.5 FEET ABOVE HIGHWAY, AND IN THE TOP OF A CONCRETE POST PROJECTING
 GD1105'0.3 FOOT.

GD1105
 GD1105 STATION RECOVERY (2002)
 GD1105

GD1105'RECOVERY NOTE BY US ARMY CORPS OF ENGINEERS 2002 (JMH)
 GD1105'RECOVERED IN GOOD CONDITION.

GD1105
GD1105 STATION RECOVERY (2003)
GD1105
GD1105'RECOVERY NOTE BY EMC INCORPORATED 2003 (MG)
GD1105'RECOVERED AS DESCRIBED

*** retrieval complete.
Elapsed Time = 00:00:02

The NGS Data Sheet

See file [dsdata.pdf](#) for more information about the datasheet.

PROGRAM = datasheet95, VERSION = 8.12.5.11

Starting Datasheet Retrieval...

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1      National Geodetic Survey,   Retrieval Date = JANUARY 22, 2021
FE0511 *****
FE0511 DESIGNATION - TT N 157
FE0511 PID - FE0511
FE0511 STATE/COUNTY- TN/MCNAIRY
FE0511 COUNTRY - US
FE0511 USGS QUAD - MOUNT PETER (2019)
FE0511
FE0511 *CURRENT SURVEY CONTROL
FE0511
FE0511* NAD 83(1986) POSITION- 35 21 30. (N) 088 35 49. (W) SCALED
FE0511* NAVD 88 ORTHO HEIGHT - 131.371 (meters) 431.01 (feet) ADJUSTED
FE0511
FE0511 GEOID HEIGHT - -27.980 (meters) GEOID18
FE0511 DYNAMIC HEIGHT - 131.251 (meters) 430.61 (feet) COMP
FE0511 MODELED GRAVITY - 979,715.3 (mgal) NAVD 88
FE0511
FE0511 VERT ORDER - FIRST CLASS II
FE0511
FE0511.The horizontal coordinates were scaled from a map and have
FE0511.an estimated accuracy of +/- 6 seconds.
FE0511.
FE0511.The orthometric height was determined by differential leveling and
FE0511.adjusted by the NATIONAL GEODETIC SURVEY
FE0511.in June 1991.
FE0511
FE0511.Significant digits in the geoid height do not necessarily reflect accuracy.
FE0511.GEOID18 height accuracy estimate available here.
FE0511
FE0511.Click photographs - Photos may exist for this station.
FE0511
FE0511.The dynamic height is computed by dividing the NAVD 88
FE0511.geopotential number by the normal gravity value computed on the
FE0511.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
FE0511.degrees latitude (g = 980.6199 gals.).
FE0511
FE0511.The modeled gravity was interpolated from observed gravity values.
FE0511
FE0511; North East Units Estimated Accuracy
FE0511;SPC TN - 116,860. 364,000. MT (+/- 180 meters Scaled)
FE0511
FE0511_U.S. NATIONAL GRID SPATIAL ADDRESS: 16SCE549139(NAD 83)
FE0511
FE0511 SUPERSEDED SURVEY CONTROL
FE0511
FE0511 NGVD 29 (11/26/84) 131.381 (m) 431.04 (f) ADJUSTED 1 2

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FE0511
FE0511.Superseded values are not recommended for survey control.
FE0511
FE0511.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.
FE0511.See file [dsdata.pdf](#) to determine how the superseded data were derived.
FE0511
FE0511_MARKER: DD = SURVEY DISK
FE0511_SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT
FE0511_STAMPING: TT N 157 1935 T
FE0511_MARK LOGO: USGS
FE0511_MAGNETIC: N = NO MAGNETIC MATERIAL
FE0511_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO
FE0511+STABILITY: SURFACE MOTION
FE0511_SATELLITE: THE SITE LOCATION WAS REPORTED AS NOT SUITABLE FOR
FE0511+SATELLITE: SATELLITE OBSERVATIONS - September 18, 2002
FE0511
FE0511 HISTORY - Date Condition Report By
FE0511 HISTORY - 1935 MONUMENTED USGS
FE0511 HISTORY - 1948 GOOD CGS
FE0511 HISTORY - 1949 GOOD CGS
FE0511 HISTORY - 20020918 GOOD USACE
FE0511
FE0511 STATION DESCRIPTION
FE0511
FE0511'DESCRIBED BY COAST AND GEODETIC SURVEY 1948
FE0511'AT FINGER.
FE0511'AT FINGER, ALONG THE GULF, MOBILE AND OHIO RAILROAD, AT A BLACK
FE0511'TOP ROAD CROSSING, 109.5 FEET NORTHEAST AND ACROSS TRACKS AND
FE0511'BLACK TOP ROAD FROM THE NORTHEAST CORNER OF THE STATION, 51 FEET
FE0511'EAST OF THE EAST RAIL OF THE MAIN TRACK, 65 FEET NORTHEAST OF THE
FE0511'CENTER OF THE CROSSING OF THE MAIN TRACK AND THE BLACK TOP ROAD,
FE0511'23 FEET NORTH OF THE CENTER LINE OF THE BLACK TOP ROAD, 3 FEET
FE0511'SOUTHWEST OF A GARDEN FENCE CORNER, 9.5 FEET SOUTHEAST OF A
FE0511'TELEPHONE POLE, 2 FEET SOUTH OF A WHITE WOODEN WITNESS POST,
FE0511'2 FEET ABOVE THE TRACK AND SET IN THE TOP OF A CONCRETE POST
FE0511'PROJECTING 4 INCHES.
FE0511
FE0511 STATION RECOVERY (1949)
FE0511
FE0511'RECOVERY NOTE BY COAST AND GEODETIC SURVEY 1949
FE0511'RECOVERED IN GOOD CONDITION.
FE0511
FE0511 STATION RECOVERY (2002)
FE0511
FE0511'RECOVERY NOTE BY US ARMY CORPS OF ENGINEERS 2002 (JMH)
FE0511'THE STATION IS LOCATED IN FINGER, TENNESSEE AT THE JUNCTION OF THE
FE0511'ILLINOIS CENTRAL RR AND HIGHWAY 199. MARK IS 22.3 FT (6.8 M) N OF THE
FE0511'CENTERLINE OF HIGHWAY 199, 51.4 FT (15.7 M) E OF THE E RAIL OF THE E
FE0511'SET OF RR TRACKS, 16.0 FT (4.9 M) E OF THE CENTERLINE OF A GRAVEL
FE0511'DRIVEWAY TO A FRAME HOUSE, 55.6 FT (16.9 M) SW OF THE SW CORNER OF THE
FE0511'FRAME HOUSE AND 7.4 FT (2.3 M) SE OF A POWERPOLE WITH STREET LIGHT AND
FE0511'A CARSONITE WITNESS POST. MONUMENT PROJECTS 1 INCH ABOVE GROUND.
FE0511'DESCRIBED BY MIKE HAMNA, MEM COE.

*** retrieval complete.

Elapsed Time = 00:00:02

The NGS Data Sheet

See file [dsdata.pdf](#) for more information about the datasheet.

PROGRAM = datasheet95, VERSION = 8.12.5.11

Starting Datasheet Retrieval...

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1      National Geodetic Survey,   Retrieval Date = JANUARY 22, 2021
GD0784 *****
GD0784 CBN          -   This is a Cooperative Base Network Control Station.
GD0784 DESIGNATION -   U 13
GD0784 PID          -   GD0784
GD0784 STATE/COUNTY-   TN/OBION
GD0784 COUNTRY      -   US
GD0784 USGS QUAD    -   UNION CITY (2019)
GD0784
GD0784                      *CURRENT SURVEY CONTROL
GD0784
GD0784* NAD 83(2011) POSITION- 36 25 02.37684(N) 089 05 13.61231(W) ADJUSTED
GD0784* NAD 83(2011) ELLIP HT-   75.757 (meters)                (06/27/12) ADJUSTED
GD0784* NAD 83(2011) EPOCH   - 2010.00
GD0784* NAVD 88 ORTHO HEIGHT - 103.769 (meters)                340.45 (feet) ADJUSTED
GD0784
GD0784 GEOID HEIGHT   -           -28.190 (meters)                GEOID18
GD0784 NAD 83(2011) X   -           81,870.781 (meters)                COMP
GD0784 NAD 83(2011) Y   -          -5,138,052.273 (meters)                COMP
GD0784 NAD 83(2011) Z   -           3,765,600.981 (meters)                COMP
GD0784 LAPLACE CORR    -              0.33 (seconds)                DEFLEC18
GD0784 DYNAMIC HEIGHT -           103.686 (meters)                340.18 (feet) COMP
GD0784 MODELED GRAVITY -           979,831.7 (mgal)                NAVD 88
GD0784
GD0784 VERT ORDER      -   SECOND    CLASS 0
GD0784
GD0784 Network accuracy estimates per FGDC Geospatial Positioning Accuracy
GD0784 Standards:
GD0784           FGDC (95% conf, cm)      Standard deviation (cm)      CorrNE
GD0784           Horiz Ellip              SD_N   SD_E   SD_h          (unitless)
GD0784 -----
GD0784 NETWORK    0.98    2.49              0.44   0.35   1.27          0.04568891
GD0784 -----
GD0784 Click here for local accuracies and other accuracy information.
GD0784
GD0784
GD0784.The horizontal coordinates were established by GPS observations
GD0784.and adjusted by the National Geodetic Survey in June 2012.
GD0784
GD0784.NAD 83(2011) refers to NAD 83 coordinates where the reference frame has
GD0784.been affixed to the stable North American tectonic plate. See
GD0784.NA2011 for more information.
GD0784
GD0784.The horizontal coordinates are valid at the epoch date displayed above
GD0784.which is a decimal equivalence of Year/Month/Day.
GD0784

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GD0784_SETTING: 9 = SET IN PREFABRICATED CONCRETE POST IMBEDDED IN GROUND

GD0784_STAMPING: U 13 1935

GD0784_MARK LOGO: CGS

GD0784_MAGNETIC: N = NO MAGNETIC MATERIAL

GD0784_STABILITY: D = MARK OF QUESTIONABLE OR UNKNOWN STABILITY

GD0784_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR

GD0784+SATELLITE: SATELLITE OBSERVATIONS - June 15, 2010

GD0784

GD0784	HISTORY	- Date	Condition	Report By
GD0784	HISTORY	- 1935	MONUMENTED	CGS
GD0784	HISTORY	- 1968	GOOD	CGS
GD0784	HISTORY	- 20020801	GOOD	USACE
GD0784	HISTORY	- 20031010	GOOD	TNDT
GD0784	HISTORY	- 20100615	GOOD	GEOCAC

GD0784

GD0784 STATION DESCRIPTION

GD0784

GD0784'DESCRIBED BY COAST AND GEODETIC SURVEY 1968

GD0784'1.8 MI W FROM UNION CITY.

GD0784'ABOUT 1.8 MILES WEST ALONG U.S. HIGHWAY 51 FROM UNION CITY,

GD0784'AT THE SOUTHWEST CORNER OF A YARD OF A TWO-STORY BRICK AND

GD0784'STUCCO HOUSE, 75 FEET WEST OF THE HOUSE, 51 FEET NORTH OF THE

GD0784'CENTER LINE OF THE HIGHWAY AND SET IN THE TOP OF A CONCRETE

GD0784'POST. NOTE-- THIRD-ORDER LEVELING BY THE U.S. ARMY ENGINEERS,

GD0784'MEMPHIS DISTRICT INDICATED THAT THE ELEVATION OF THE MARK IS

GD0784'0.832 FOOT HIGHER THAN PREVIOUSLY PUBLISHED. ARMY ENGINEERS

GD0784'ELEVATION IS 341.442 FEET.

GD0784

GD0784 STATION RECOVERY (2002)

GD0784

GD0784'RECOVERY NOTE BY US ARMY CORPS OF ENGINEERS 2002 (JMH)

GD0784'TO REACH THE STATION FROM THE INTERSECTION OF US HIGHWAY 45W SOUTH AND

GD0784'STATE HIGHWAY 22 SOUTH IN UNION CITY, TENNESSEE PROCEED WEST ALONG

GD0784'HIGHWAY 22 FOR 0.6 MI (1.0 KM) TO ITS INTERSECTION WITH US HIGHWAY 51.

GD0784'CONTINUE WEST ALONG US HIGHWAY 51 FOR 0.2 MI (0.3 KM) TO ITS

GD0784'INTERSECTION WITH STATE HIGHWAY 184. BEAR RIGHT AND CONTINUE WEST

GD0784'ALONG STATE HIGHWAY 184 FOR 0.9 MI (1.4 KM) TO THE MARK ON THE RIGHT

GD0784'IN THE SW CORNER OF A 2-STORY BRICK HOUSE ON THE NORTH SIDE OF HIGHWAY

GD0784'184. THE STATION IS LOCATED SW OF THE SW CORNER OF THE TWO-STORY

GD0784'BRICK HOUSE, 52.6 FT (16.0 M) NORTH AT THE CENTERLINE OF HIGHWAY 184

GD0784'AND 24.0 FT (7.3 M) NNE OF POWERPOLE NO 90. A STANDARD CGS DISC SET

GD0784'IN THE TOP OF A 6 INCH X 6 INCH CONCRETE SQUARE POST, PROJECTING 12

GD0784'INCHES ABOVE GROUND. DESCRIBED BY JAMES M HAMRA, MEM COE, AT 901

GD0784'573-4181.

GD0784

GD0784 STATION RECOVERY (2003)

GD0784

GD0784'RECOVERY NOTE BY TN DEPT OF TRANSP 2003

GD0784'RECOVERED AS DESCRIBED.

GD0784

GD0784 STATION RECOVERY (2010)

GD0784

GD0784'RECOVERY NOTE BY GEOCACHING 2010 (ACM)

GD0784'RECOVERED IN GOOD CONDITION.

*** retrieval complete.
Elapsed Time = 00:00:02

The NGS Data Sheet

See file [dsdata.pdf](#) for more information about the datasheet.

PROGRAM = datasheet95, VERSION = 8.12.5.11

Starting Datasheet Retrieval...

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1      National Geodetic Survey,   Retrieval Date = JANUARY 22, 2021
DG5302 *****
DG5302 HT_MOD      -   This is a Height Modernization Survey Station.
DG5302 DESIGNATION -   U 14X
DG5302 PID        -   DG5302
DG5302 STATE/COUNTY- TN/GIBSON
DG5302 COUNTRY    -   US
DG5302 USGS QUAD  -   DYER (2019)
DG5302
DG5302                      *CURRENT SURVEY CONTROL
DG5302
DG5302* NAD 83(2011) POSITION- 36 04 08.97667(N) 088 59 40.16284(W) ADJUSTED
DG5302* NAD 83(2011) ELLIP HT-   80.244 (meters)           (06/27/12) ADJUSTED
DG5302* NAD 83(2011) EPOCH   - 2010.00
DG5302* NAVD 88 ORTHO HEIGHT - 108.45 (meters)           355.8 (feet) GPS OBS
DG5302
DG5302 NAVD 88 orthometric height was determined with geoid model   GEOID03
DG5302 GEOID HEIGHT      -      -28.160 (meters)                   GEOID03
DG5302 GEOID HEIGHT      -      -28.275 (meters)                   GEOID18
DG5302 NAD 83(2011) X    -      90,577.782 (meters)                 COMP
DG5302 NAD 83(2011) Y    -    -5,160,754.419 (meters)                 COMP
DG5302 NAD 83(2011) Z    -    3,734,444.584 (meters)                 COMP
DG5302 LAPLACE CORR      -      -0.20 (seconds)                     DEFLEC18
DG5302
DG5302 Network accuracy estimates per FGDC Geospatial Positioning Accuracy
DG5302 Standards:
DG5302          FGDC (95% conf, cm)      Standard deviation (cm)      CorrNE
DG5302          Horiz Ellip              SD_N   SD_E   SD_h      (unitless)
DG5302 -----
DG5302 NETWORK      1.50   2.86              0.65   0.57   1.46      -0.14325154
DG5302 -----
DG5302 Click here for local accuracies and other accuracy information.
DG5302
DG5302
DG5302.The horizontal coordinates were established by GPS observations
DG5302.and adjusted by the National Geodetic Survey in June 2012.
DG5302
DG5302.NAD 83(2011) refers to NAD 83 coordinates where the reference frame has
DG5302.been affixed to the stable North American tectonic plate. See
DG5302.NA2011 for more information.
DG5302
DG5302.The horizontal coordinates are valid at the epoch date displayed above
DG5302.which is a decimal equivalence of Year/Month/Day.
DG5302
DG5302.The orthometric height was determined by GPS observations and a
DG5302.high-resolution geoid model using precise GPS observation and

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DG5302.processing techniques.

DG5302

DG5302.Significant digits in the geoid height do not necessarily reflect accuracy.

DG5302.GEOID18 height accuracy estimate available [here](#).

DG5302

DG5302.Click [photographs](#) - Photos may exist for this station.

DG5302

DG5302.The X, Y, and Z were computed from the position and the ellipsoidal ht.

DG5302

DG5302.The Laplace correction was computed from DEFLEC18 derived deflections.

DG5302

DG5302.The ellipsoidal height was determined by GPS observations

DG5302.and is referenced to NAD 83.

DG5302

DG5302. The following values were computed from the NAD 83(2011) position.

DG5302

DG5302;		North	East	Units	Scale	Factor	Converg.
DG5302;SPC TN	-	196,715.515	330,295.450	MT	0.99995679	-1 45	11.1
DG5302;SPC TN	-	645,390.82	1,083,644.32	sFT	0.99995679	-1 45	11.1
DG5302;UTM 16	-	3,993,460.390	320,387.247	MT	0.99999752	-1 10	28.5

DG5302

DG5302! - Elev Factor x Scale Factor = Combined Factor

DG5302!SPC TN - 0.99998741 x 0.99995679 = 0.99994420

DG5302!UTM 16 - 0.99998741 x 0.99999752 = 0.99998493

DG5302

DG5302_U.S. NATIONAL GRID SPATIAL ADDRESS: 16SCE2038793460 (NAD 83)

DG5302

DG5302 SUPERSEDED SURVEY CONTROL

DG5302

DG5302	NAD 83(2007)-	36 04 08.97674(N)	088 59 40.16372(W)	AD(2002.00)	0
DG5302	ELLIP H (02/10/07)	80.262 (m)		GP(2002.00)	
DG5302	NAD 83(1995)-	36 04 08.97653(N)	088 59 40.16353(W)	AD()	B
DG5302	ELLIP H (04/05/04)	80.268 (m)		GP()	3 2
DG5302	NAVD 88	108.50 (m)	356.0 (f)	LEVELING	3

DG5302

DG5302.Superseded values are not recommended for survey control.

DG5302

DG5302.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.

DG5302.See file [dsdata.pdf](#) to determine how the superseded data were derived.

DG5302

DG5302_MARKER: DD = SURVEY DISK

DG5302_SETTING: 31 = SET IN A PAVEMENT SUCH AS STREET, SIDEWALK, CURB, ETC.

DG5302_SP_SET: SET IN TOP OF CONCRETE CURB

DG5302_STAMPING: U14X 2002

DG5302_MARK LOGO: USACE

DG5302_MAGNETIC: O = OTHER; SEE DESCRIPTION

DG5302_STABILITY: D = MARK OF QUESTIONABLE OR UNKNOWN STABILITY

DG5302_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR

DG5302+SATELLITE: SATELLITE OBSERVATIONS - February 03, 2011

DG5302

DG5302	HISTORY	- Date	Condition	Report By
DG5302	HISTORY	- 20020618	MONUMENTED	EMCINC
DG5302	HISTORY	- 20110203	GOOD	INDIV

DG5302

DG5302 STATION DESCRIPTION
DG5302
DG5302'DESCRIBED BY EMC INCORPORATED 2002 (WB)
DG5302'MARK IS LOCATED IN DYER, TN AT THE INTERSECTION OF E. FRONT ST. AND
DG5302'OAK ST.TO REACH MARK FROM INTERSECTION OF ST HWY 77 AND US HWY 49W GO
DG5302'SOUTH ON US 49W FOR 0.25 MI TO PARKVIEW DR. ON LEFT, THENCE PROCEED E.
DG5302'0.05 MI TO E. FRONT ST., THENCE PROCEED SOUTH ON E. FRONT ST. 0.1MI TO
DG5302'MARK ON LEFT.MARK IS 84.8M (279.8FT) NORTH OF BENCH MARK U14, 8.7M
DG5302'(28.5FT) NORTHEAST OF EAST MOST RR TRACK, AND 7.8M (25.6FT) SOUTHEAST
DG5302'OF INTERSECTION OF E. FRONT ST. AND OAK ST.MARK IS A US ARMY COE
DG5302'BRONZE CAP SET IN TOP OF CONCRETE CURB.

DG5302
DG5302 STATION RECOVERY (2011)
DG5302
DG5302'RECOVERY NOTE BY INDIVIDUAL CONTRIBUTORS 2011 (GDS)
DG5302'RECOVERED AS DESCRIBED, MARK IN GOOD CONDITION.

*** retrieval complete.
Elapsed Time = 00:00:02

The NGS Data Sheet

See file [dsdata.pdf](#) for more information about the datasheet.

PROGRAM = datasheet95, VERSION = 8.12.5.11

Starting Datasheet Retrieval...

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1      National Geodetic Survey,      Retrieval Date = JANUARY 22, 2021
GD0312 *****
GD0312 DESIGNATION - X 173
GD0312 PID - GD0312
GD0312 STATE/COUNTY- TN/WEAKLEY
GD0312 COUNTRY - US
GD0312 USGS QUAD - MCCONNELL (2019)
GD0312
GD0312 *CURRENT SURVEY CONTROL
GD0312
GD0312* NAD 83(2011) POSITION- 36 23 00.29298(N) 088 50 59.17167(W) NO CHECK
GD0312* NAD 83(2011) ELLIP HT- 82.775 (meters) (06/27/12) NO CHECK
GD0312* NAD 83(2011) EPOCH - 2010.00
GD0312* NAVD 88 ORTHO HEIGHT - 111.012 (meters) 364.21 (feet) ADJUSTED
GD0312
GD0312 GEOID HEIGHT - -28.224 (meters) GEOID18
GD0312 NAD 83(2011) X - 103,199.059 (meters) COMP
GD0312 NAD 83(2011) Y - -5,139,907.393 (meters) COMP
GD0312 NAD 83(2011) Z - 3,762,576.215 (meters) COMP
GD0312 LAPLACE CORR - -0.47 (seconds) DEFLEC18
GD0312 DYNAMIC HEIGHT - 110.922 (meters) 363.92 (feet) COMP
GD0312 MODELED GRAVITY - 979,824.9 (mgal) NAVD 88
GD0312
GD0312 VERT ORDER - FIRST CLASS II
GD0312
GD0312 Network accuracy estimates per FGDC Geospatial Positioning Accuracy
GD0312 Standards:
GD0312 FGDC (95% conf, cm) Standard deviation (cm) CorrNE
GD0312 Horiz Ellip SD_N SD_E SD_h (unitless)
GD0312 -----
GD0312 NETWORK 1.37 4.04 0.62 0.48 2.06 0.02261833
GD0312 -----
GD0312 Click here for local accuracies and other accuracy information.
GD0312
GD0312
GD0312.The horizontal coordinates were established by GPS observations
GD0312.and adjusted by the National Geodetic Survey in June 2012.
GD0312
GD0312.NAD 83(2011) refers to NAD 83 coordinates where the reference frame has
GD0312.been affixed to the stable North American tectonic plate. See
GD0312.NA2011 for more information.
GD0312
GD0312.The horizontal coordinates are valid at the epoch date displayed above
GD0312.which is a decimal equivalence of Year/Month/Day.
GD0312
GD0312.No horizontal observational check was made to the station.

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GD0312_MARK LOGO: CGS

GD0312_PROJECTION: PROJECTING 12 CENTIMETERS

GD0312_MAGNETIC: N = NO MAGNETIC MATERIAL

GD0312_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO

GD0312+STABILITY: SURFACE MOTION

GD0312_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR

GD0312+SATELLITE: SATELLITE OBSERVATIONS - August 20, 2002

GD0312

GD0312	HISTORY	- Date	Condition	Report By
GD0312	HISTORY	- 1948	MONUMENTED	CGS
GD0312	HISTORY	- 1967	GOOD	CGS
GD0312	HISTORY	- 1999	GOOD	LOWE
GD0312	HISTORY	- 20020820	GOOD	USACE

GD0312

GD0312 STATION DESCRIPTION

GD0312

GD0312'DESCRIBED BY COAST AND GEODETIC SURVEY 1967

GD0312'2.6 MI N FROM MARTIN.

GD0312'THE MARK IS ABOUT 2.6 MILES NORTH ALONG THE ILLINOIS CENTRAL

GD0312'RAILROAD FROM THE UNION STATION AT MARTIN, ABOUT 0.1 MILE NORTH

GD0312'OF MILEPOST C 415, AT A PUBLIC GRAVELED ROAD CROSSING, 57 FEET

GD0312'NORTHEAST OF THE CENTER OF THE CROSSING, 49.5 FEET EAST OF THE

GD0312'EAST RAIL, 40 FEET NORTHWEST OF A CROSSING SIGN, 34 FEET NORTH OF

GD0312'THE APPROXIMATE CENTER OF THE GRAVELED ROAD, 7 FEET EAST OF A

GD0312'POWERLINE BRACE POLE, AND 1.9 FEET SOUTHEAST OF A LARGE OAK POST

GD0312'WITH A METAL WITNESS SIGN ATTACHED. THIS WITNESS SIGN WAS

GD0312'ATTACHED TO THIS OAK POST AT THE REQUEST OF THE PROPERTY OWNER

GD0312'OF THE LAND ALONG THE EAST SIDE OF THE TRACKS WHO KEEPS THE AREA

GD0312'MOWED. THE MARK IS A STANDARD BENCH MARK DISK SET IN THE TOP

GD0312'OF A 12-INCH, ROUND, CONCRETE MONUMENT THAT PROJECTS 5 INCHES

GD0312'AND THE DISK IS STAMPED X 173 1948.

GD0312

GD0312 STATION RECOVERY (1999)

GD0312

GD0312'RECOVERY NOTE BY LOWE ENGINEERS 1999 (JDJ)

GD0312'RECOVERY BY LOWE ENGINEERS 1999

GD0312'RECOVERED IN GOOD CONDITION.

GD0312'

GD0312'THE STATION IS LOCATED ABOUT 4.18 KM (2.6 MI) NORTH OF MARTIN, ABOUT

GD0312'4.18 KM (2.6 MI) NORTH ALONG THE ICRR FROM THE SITE OF THE UNION

GD0312'STATION AT MARTIN AND ABOUT 0.16 KM (0.1 MI) NORTH OF MILE POST 415.

GD0312'

GD0312'TO REACH THE STATION FROM THE HIGHWAY 22 OVERPASS OF HIGHWAY

GD0312'45E, GO NORTH ON HIGHWAY 45E FOR 1.61 KM (1.0 MI) TO STOVER ROAD, ON

GD0312'THE RIGHT. STOVER ROAD IS THE FIRST PAVED ROAD CROSSING THE

GD0312'RAILROAD ON THE RIGHT, NORTH OF HIGHWAY 22. TURN RIGHT ON STOVER

GD0312'ROAD AND GO EAST 0.16 KM (0.1 MI). THE STATION IS ON THE LEFT,

GD0312'IMMEDIATELY AFTER CROSSING THE RAILROAD TRACKS, IN A GROWN OVER

GD0312'AREA NEAR A FENCE CORNER.

GD0312'

GD0312'THE STATION IS A STANDARD BENCH MARK DISK SET IN THE TOP OF A

GD0312'ROUND CONCRETE POST THAT PROJECTS 0.13 M (0.42 FT) ABOVE THE

GD0312'GROUND. THERE IS NO WITNESS POST. THE STATION IS 17.37 M (57.0 FT)

GD0312'NORTHEAST OF THE CENTER OF THE INTERSECTION OF THE ROAD AND

GD0312'RAILROAD CROSSING, 15.09 M (49.5 FT) EAST OF THE EAST RAIL,

GD0312'APPROXIMATELY 10.36 M (34 FT) NORTH OF THE CENTER OF STOVER ROAD,
GD0312'AND 2.13 M (7 FT) EAST OF THE UTILITY POLE. NOTE, THE STATION IS BEING
GD0312'OVERGROWN BY BRUSH AND TREES AND WILL SOON BE UNSUITABLE FOR
GD0312'GPS OCCUPATION WITHOUT CLEARING.

GD0312

GD0312 STATION RECOVERY (2002)

GD0312

GD0312'RECOVERY NOTE BY US ARMY CORPS OF ENGINEERS 2002 (JMH)

GD0312'RECOVERED IN GOOD CONDITION.

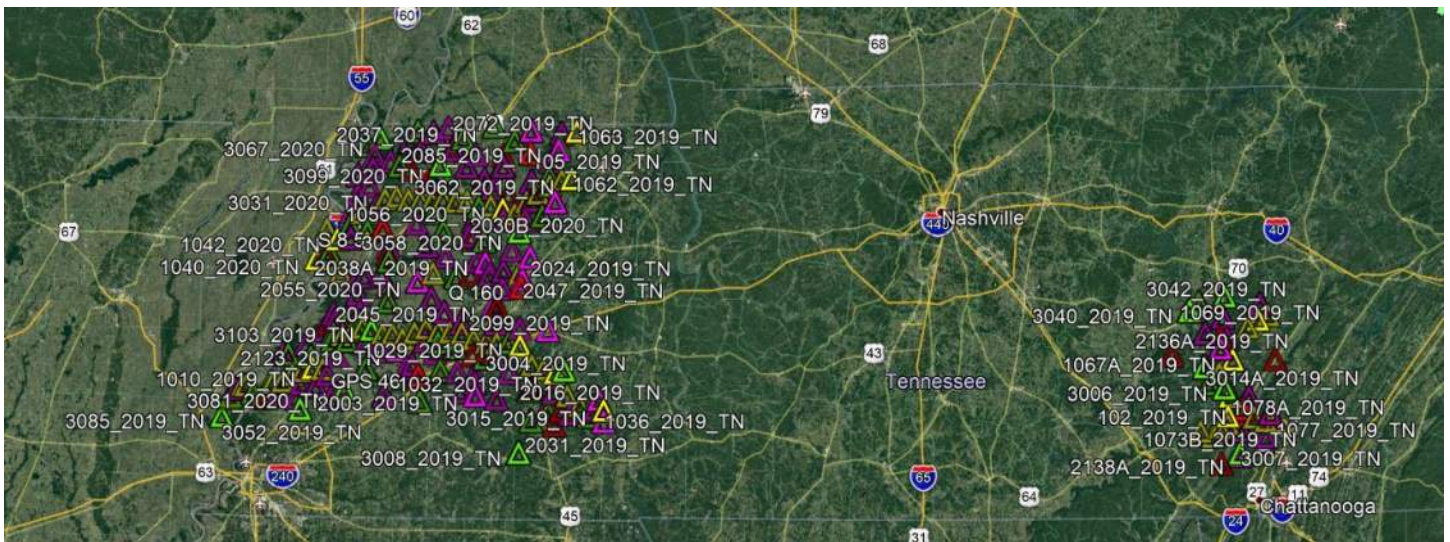
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Elapsed Time = 00:00:01

Section 5: GPS Control Diagram

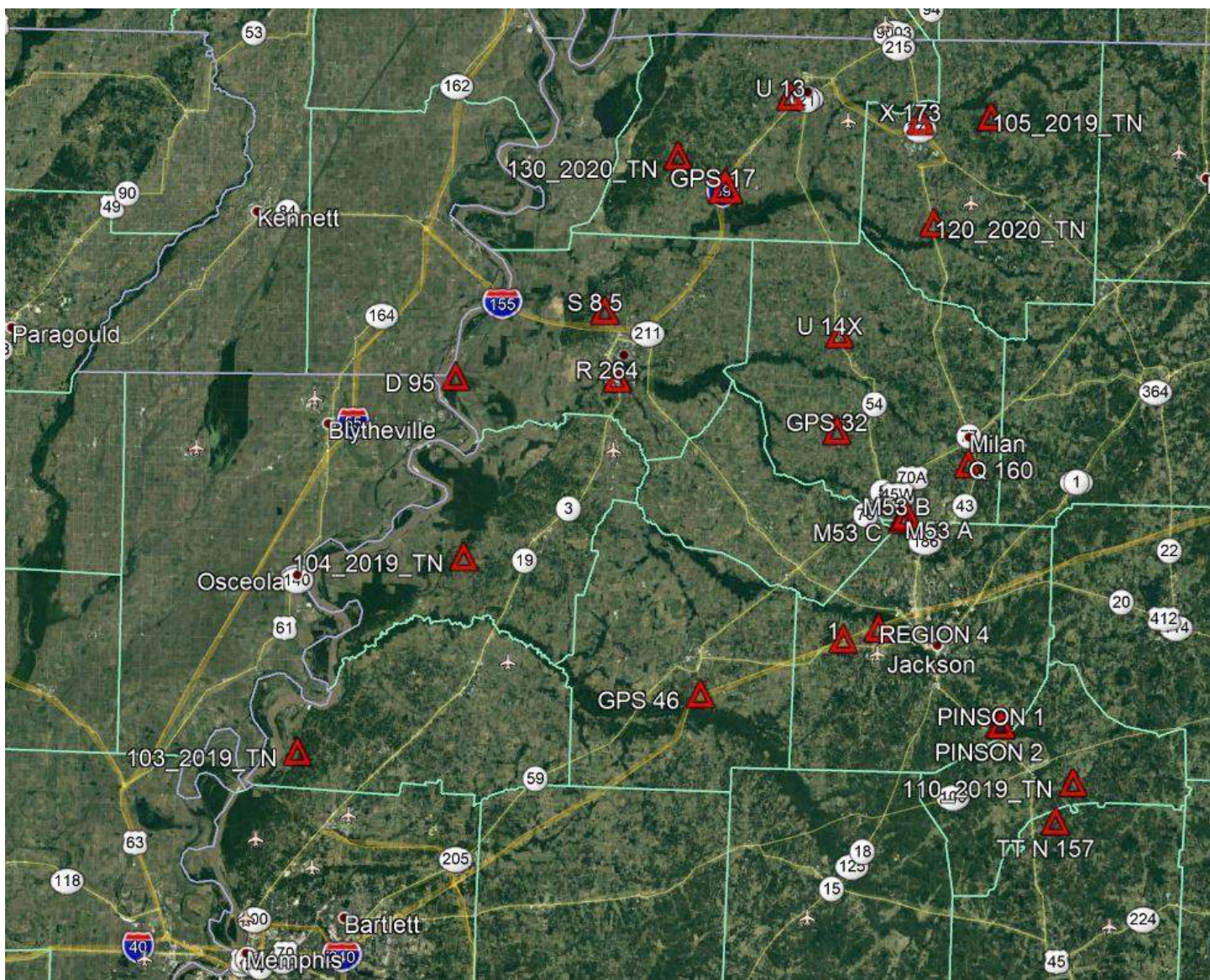
This section contains a graphical representation of the new and existing control stations used for the project.

Overview of Control Network:

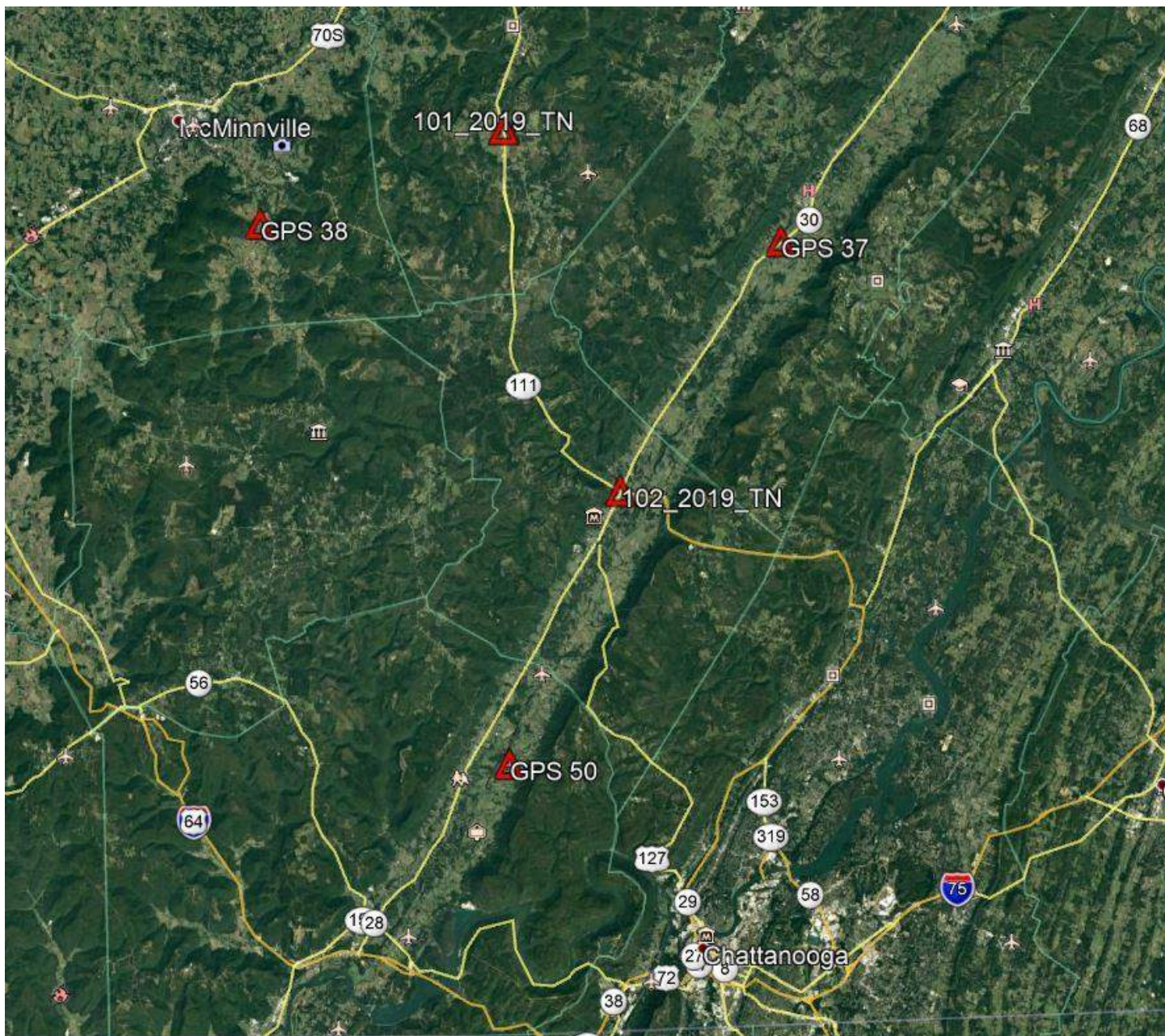


Not to Scale

Geodetic Control West:

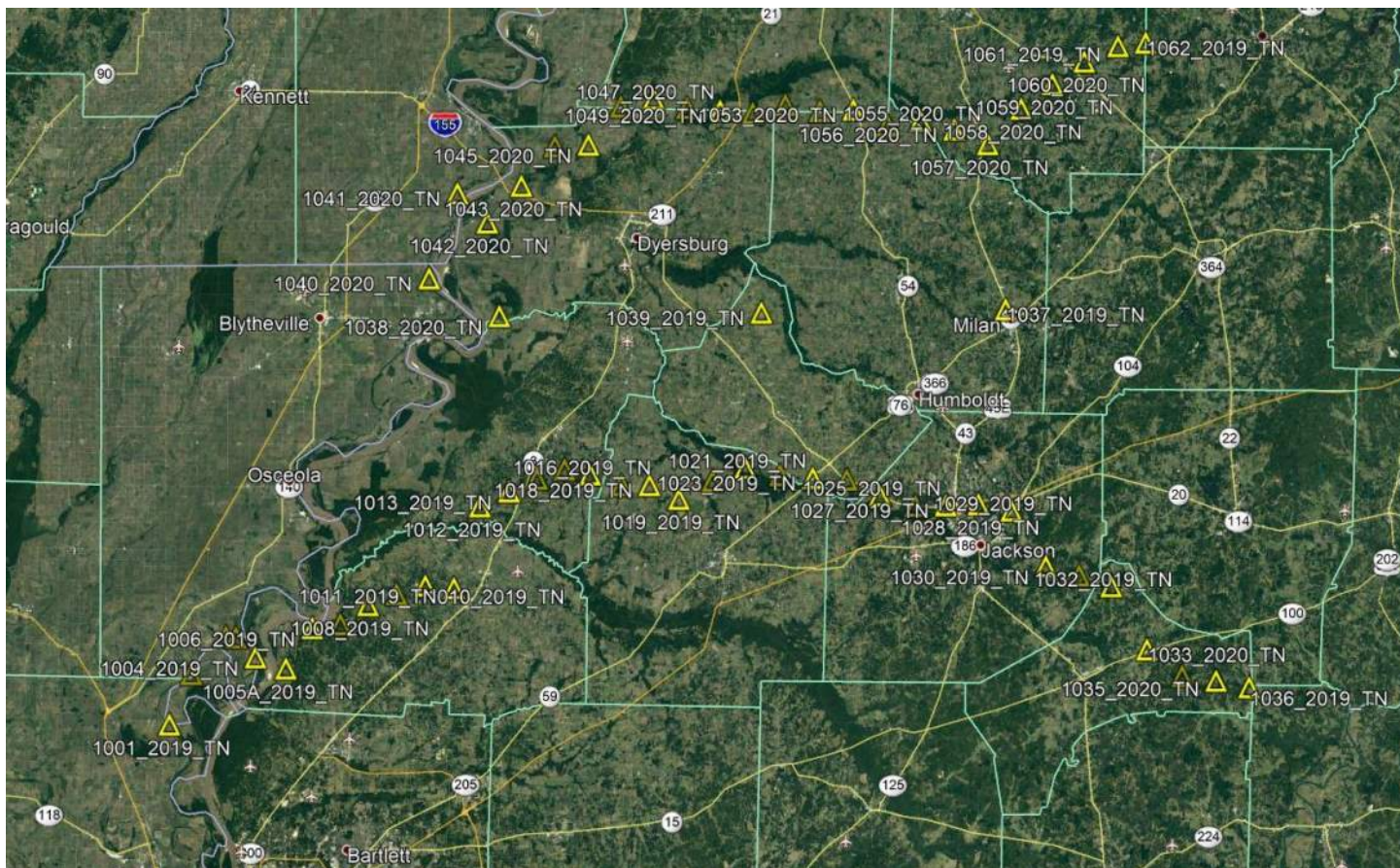


Geodetic Control East:



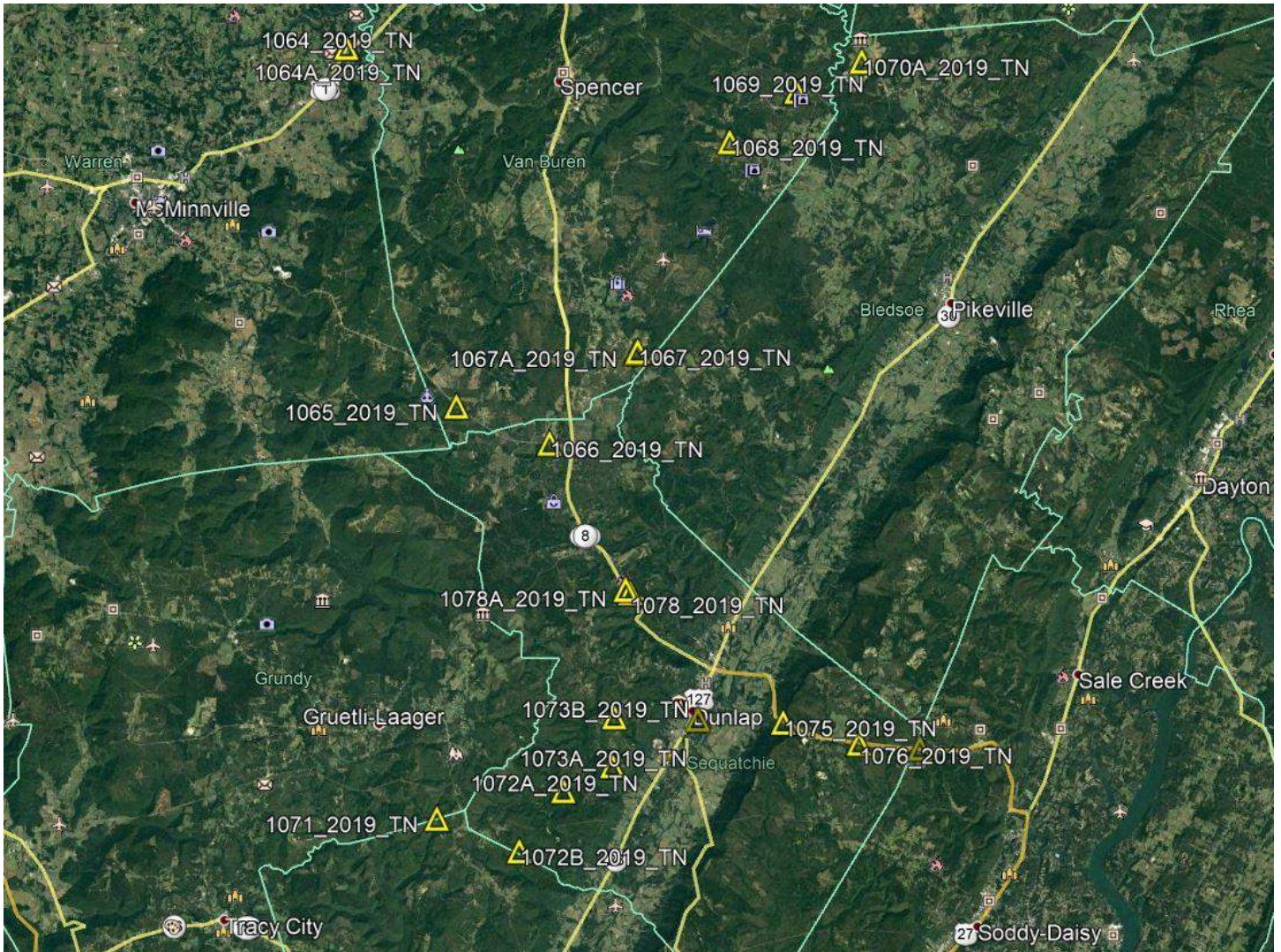
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Calibration Control West:

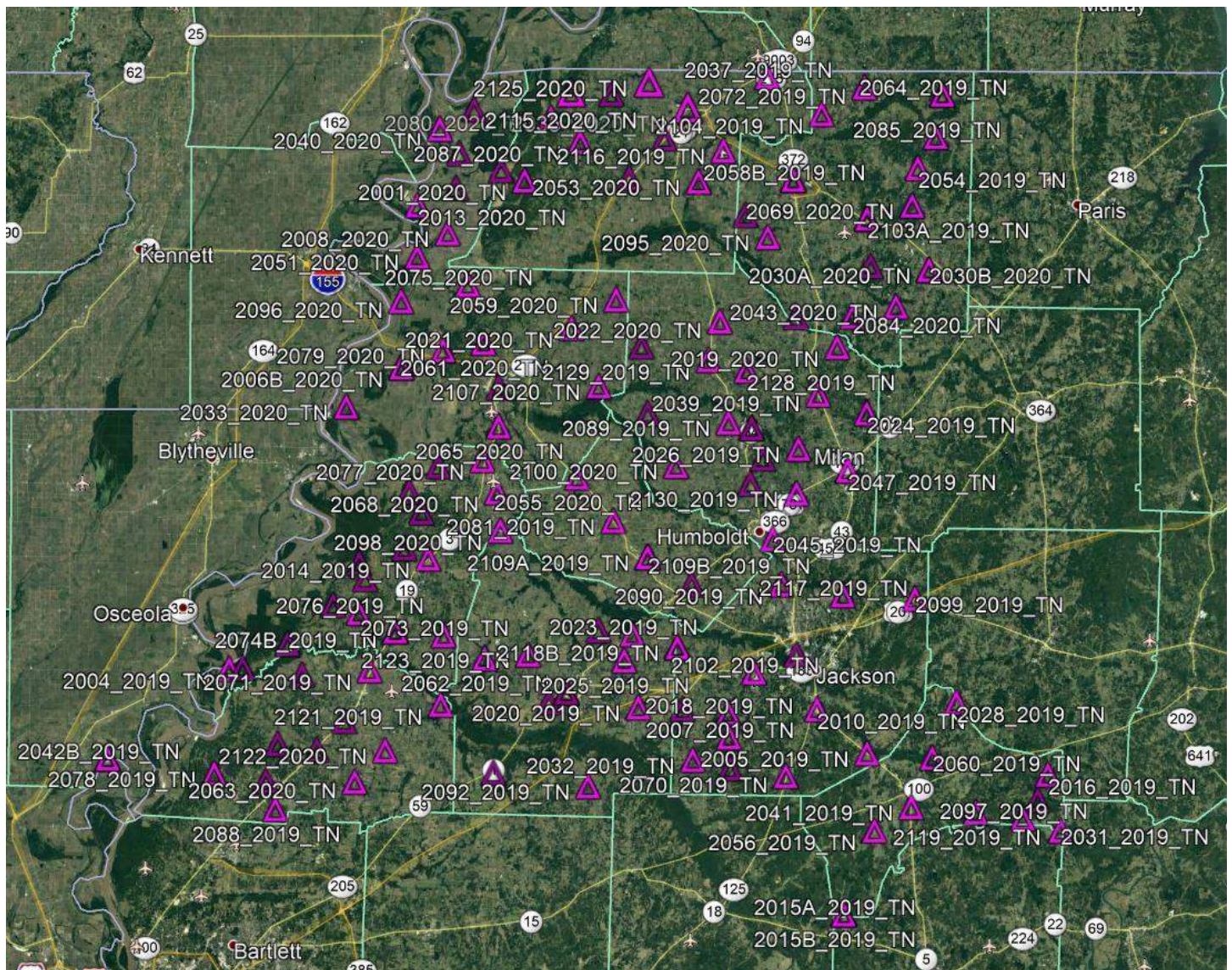


Not to Scale

Calibration Control East:

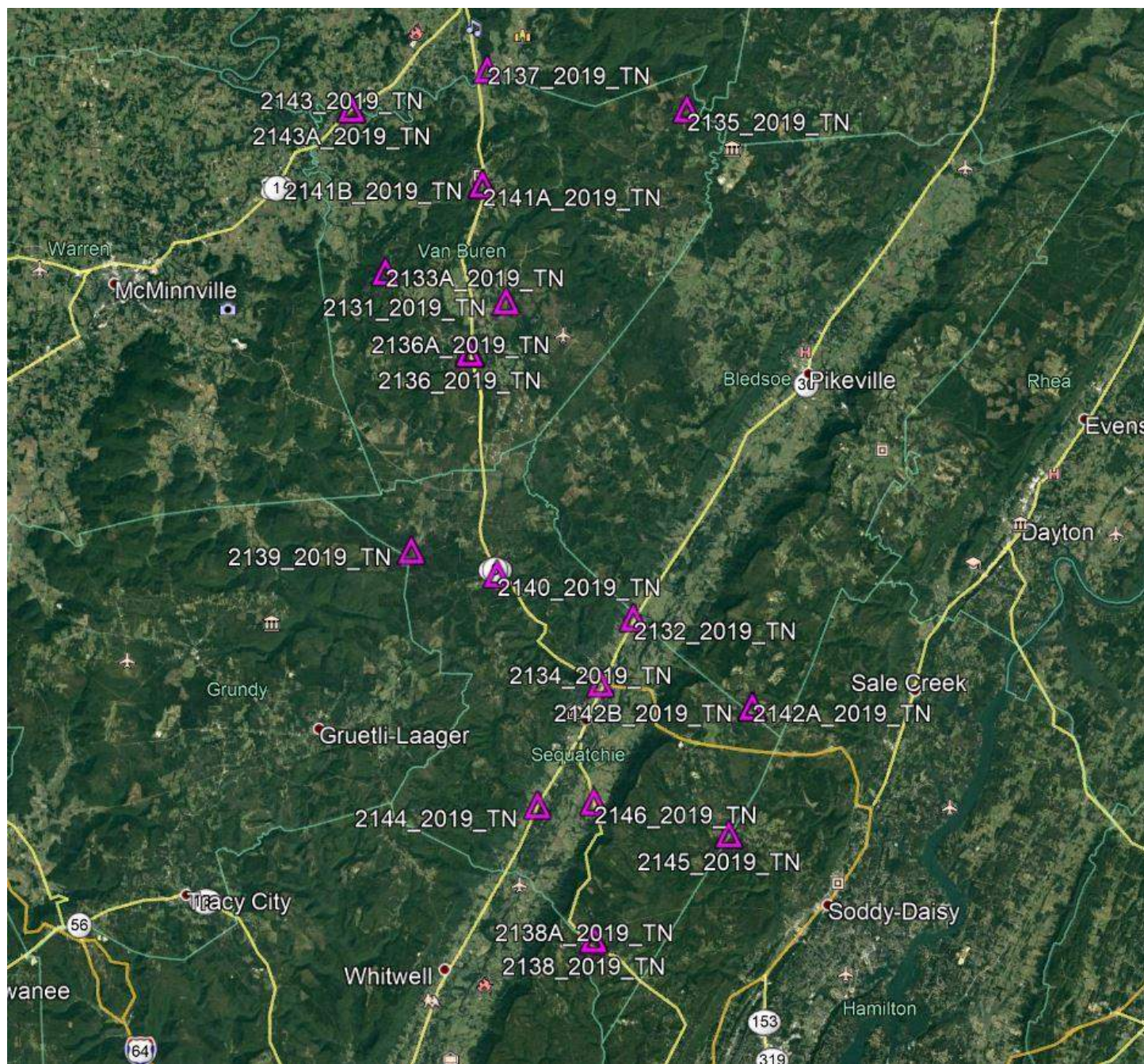


NVA Checks West:



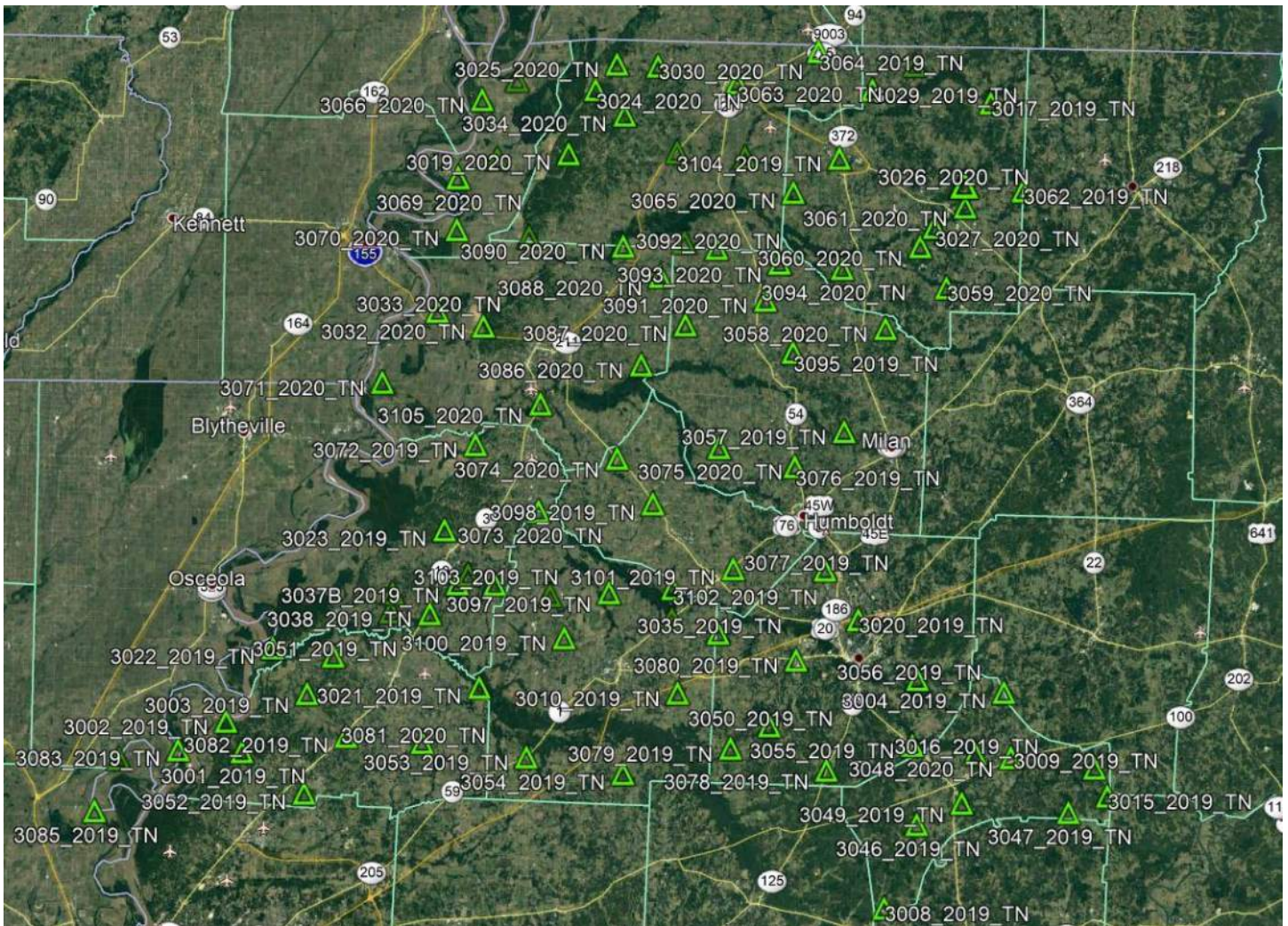
Not to Scale

NVA Checks East:



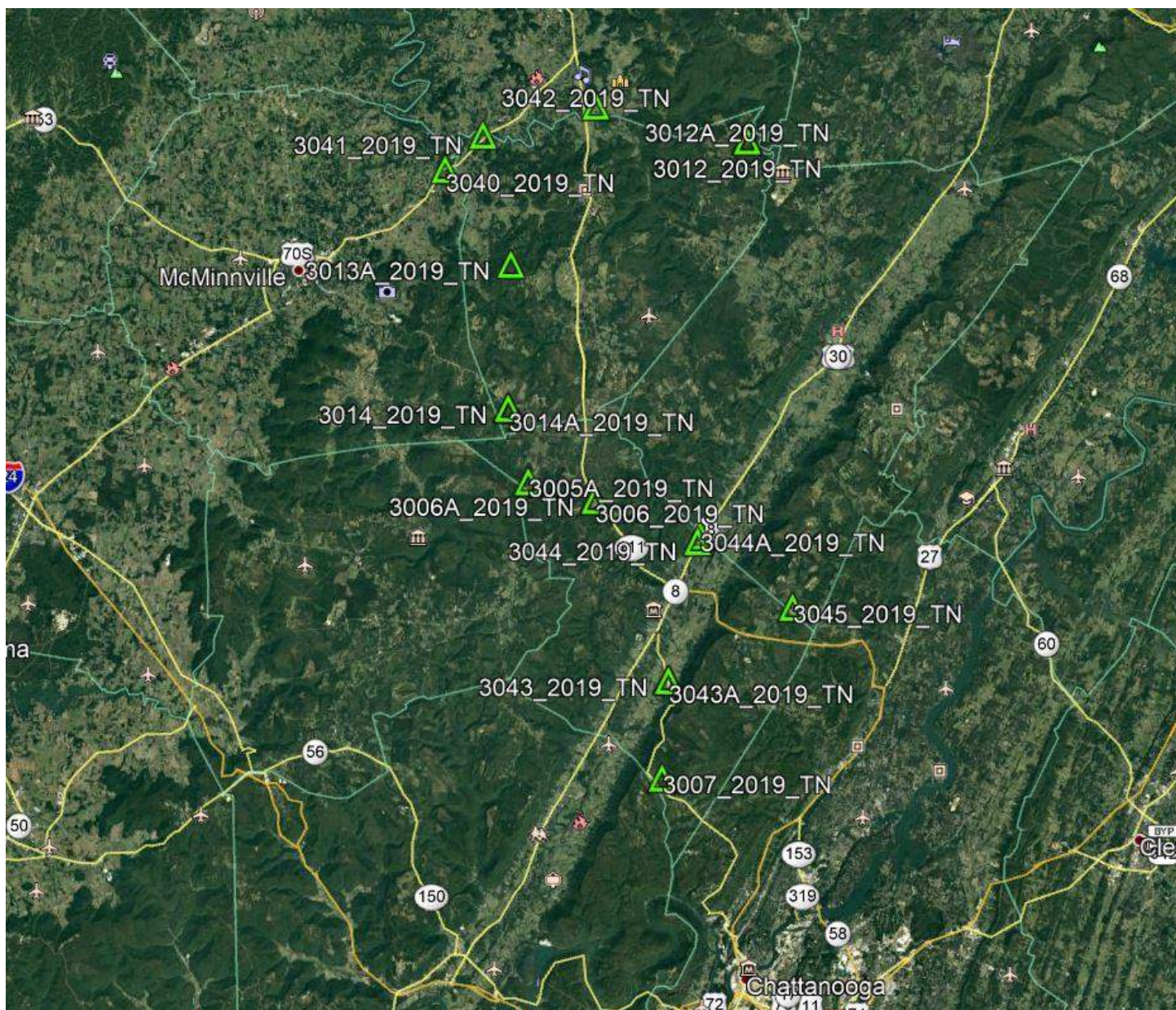
Not to Scale

VVA Checks West:



Not to Scale

VVA Checks East:



Not to Scale