



June 26, 2024

Survey Report of
LiDAR Calibration & Quality Control Points

USGS Contract: 140G0221D0012

CA_LosAngeles_B23

USGS Task Order: 140G0223F0270

Presented to:



Presented By:



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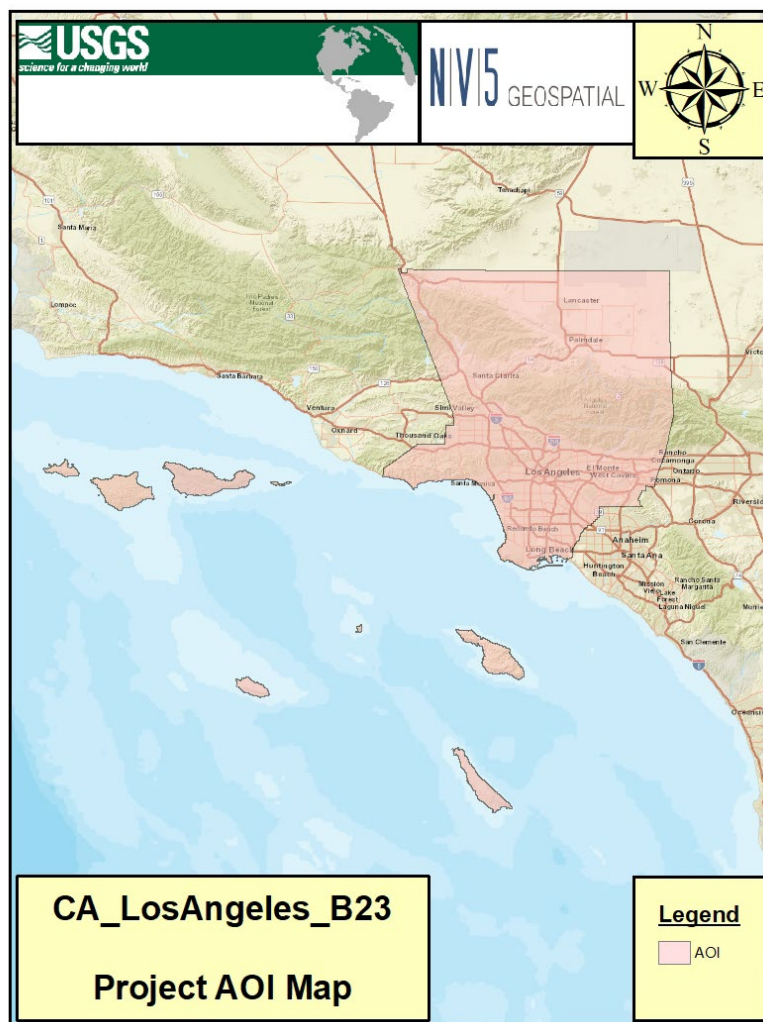
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Introduction

NV5 Geospatial, Inc. was contracted by USGS under task order 140G0223F0270 to survey LiDAR calibration and quality control points in support of the CA_LosAngeles_B23 project. The project consisted of an approximate 4,368 square mile area of the North Coast of California. This is the report of the technical approach used and detail of each point surveyed.

Project Area

The Project Area, shown in the figure below, consist of Approximately 4,368 square miles.



Technical Approach to Land Cover Validation Point Selection

Referencing ASPRS Positional Accuracy Standards for Digital Geospatial Data (Edition 1, Version 1.0, - November, 2014) table C.1 Recommended Number of Checkpoints based on Area, NV5 Geospatial calculated the total number of checkpoints required for the entire project area. It was determined that 126 Non-Vegetated Vertical Accuracy (NVA) and 93 Vegetated Vertical Accuracy (VVA) points were required for the project area.

To ensure that checkpoints were distributed generally proportionate among the various vegetated land cover types, NV5 Geospatial used existing USGS Land Cover data to divide both the NVA and VVA categories among the various types, calculating the approximate number of required points in each representative type proportionate to the total project area. The resulting point classes are detailed below:

<u>NVA Class</u>	<u># of Points</u>	<u>VVA Class</u>	<u># of Points</u>
Bare Earth	69	Forested	17
Urban Area	57	Tall Weeds/Crops	44
		Brushland	32

NV5 Geospatial has adopted the philosophy that each vegetative class must be well distributed throughout the project area. While points in varying classes may be near to one another, points of a single vegetative class may not. Proposed point locations are selected with this distribution methodology in mind; however, access to the entire AOI limited the distribution.

Survey Accuracy Requirements

Given that the survey accuracy of calibration and quality control check points should be 3 times more accurate than the required accuracy of the data set, NV5 Geospatial requires that calibration and NVA points are better than 3 centimeters RMSE, both horizontally and vertically, and that VVA points be better than 5 centimeters RMSE, both horizontally and vertically. The surveyed accuracy of each point must be determined through redundant measurements and/or network adjustment using procedures and methodologies that reliably and consistently result in the aforementioned accuracies.

Due to variances in reference control accuracy and adjustment, NV5 Geospatial requires that the survey methodology used be explained, so that it can be repeated if necessary.

Field Survey Methodology

Date Range: September 21, 2023 – November 3, 2023

Equipment Used:

Field crews used Trimble R12i and R750 dual frequency GNSS receivers as rovers and base stations.

GNSS Methodology:

A combination of Real-Time Kinematic (RTK), Real-Time Network (RTN), and static GNSS surveying methods were used during this project. The HxGN SmartNet and the California Surveying and Drafting Supply (CSDS) real-time reference networks (RTN) were used. Where GNSS network or cellular data coverage didn't exist, either temporary marks were established by static observations and used for radio RTK rover observations or fast-static rover observations were taken. Fast-static observation baselines were processed to base stations (RTN, CORS, or temporary) within the Trimble Business Center (TBC) software package. RTN and temporary base station data was processed with the NGS OPUS post processing service. The permanent RTN station positions were also checked/updated with the OPUS program using downloaded static data. All positions were referenced to NGS NSRS

All the GNSS and conventional information was downloaded, processed, and analyzed using Trimble Business Center processing software. A network was formed and adjusted.

Overall Project Accuracy Statement

All point coordinates have been reported in the North American Datum of 1983 (2011). Universal Transverse Mercator (UTM) – Zone 11 coordinates in meters horizontally. Elevations are relative to the North American Vertical Datum of 1988 (NAVD 88) which were derived using the Geoid 18 model and are reported in meters.

Additionally, all point coordinates have been reported in the North American Datum of 1983 (2011) California State Plane Coordinate System V FIPS 0405 coordinates in US Survey Feet horizontally. Elevations are relative to the North American Vertical Datum of 1988 (NAVD 88) which were derived using the Geoid 18 model and are reported in US Survey Feet.

Calibration Points

Average Horizontal RMSE is 0.005 m.

Average Elevation RMSE is 0.011 m.

Average 3 dimensional RMSE is 0.012 m.

NVA Points

Average Horizontal RMSE is 0.005 m.

Average Elevation RMSE is 0.011 m.

Average 3 dimensional RMSE is 0.012 m.

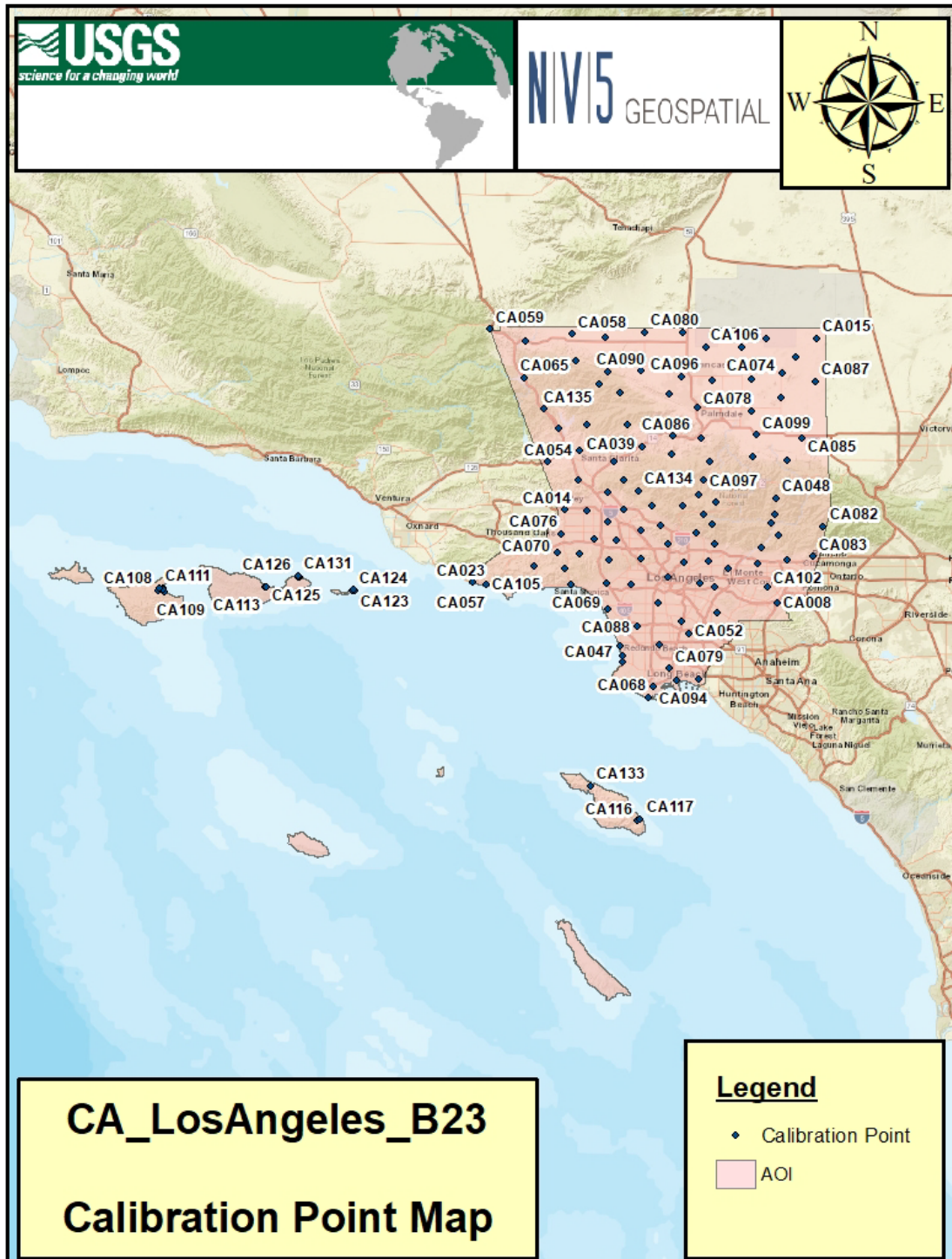
VVA Points

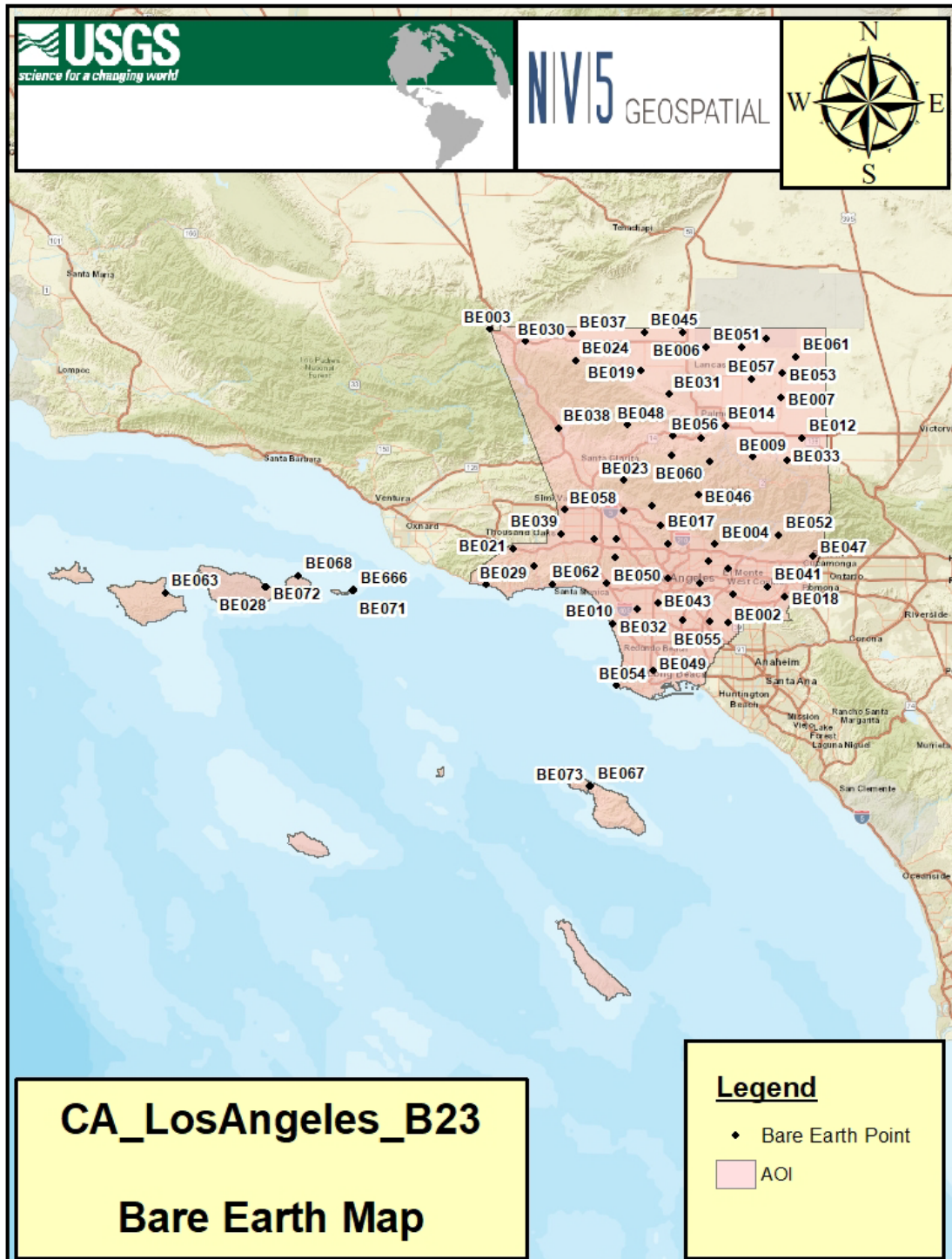
Average Horizontal RMSE is 0.005 m.

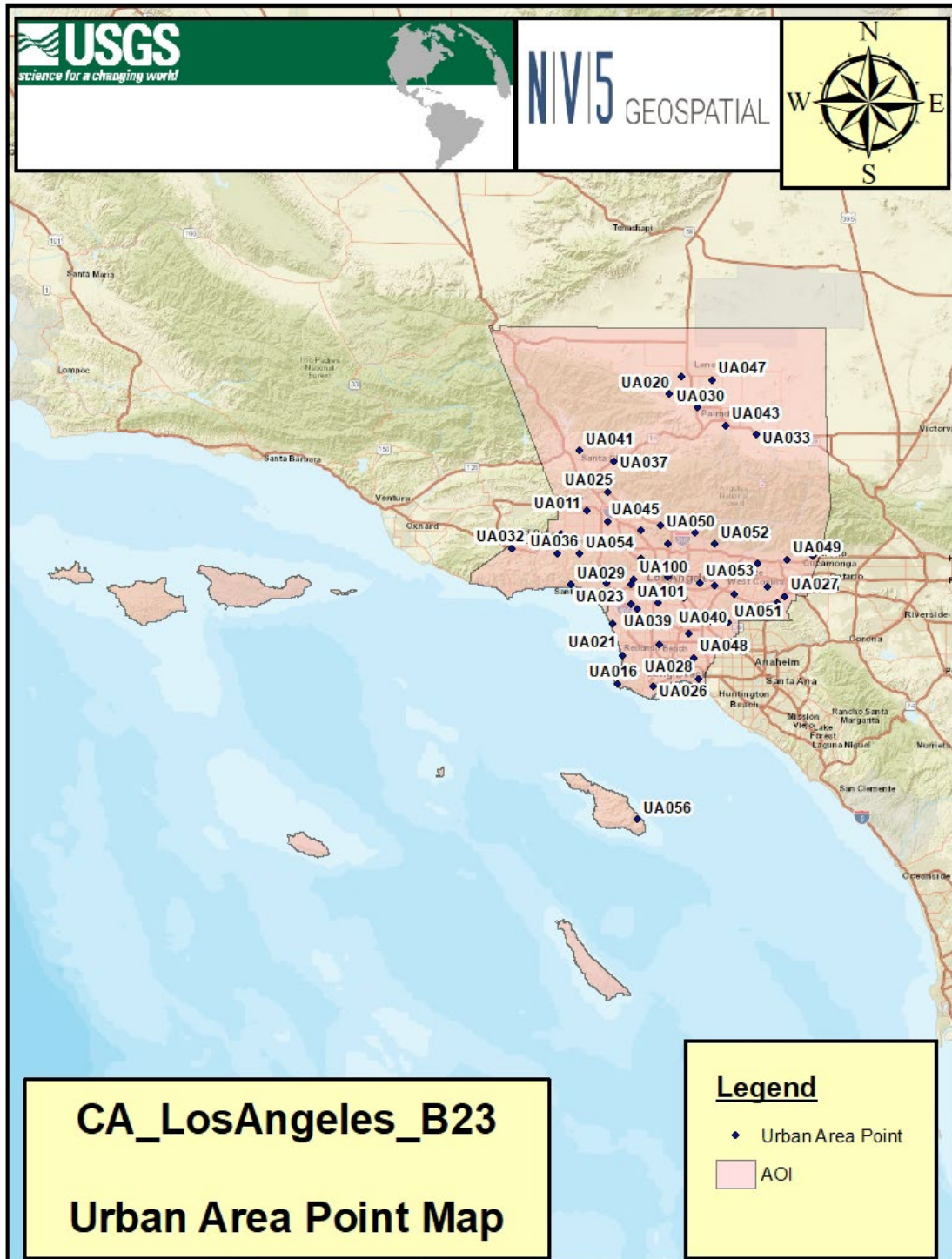
Average Elevation RMSE is 0.011 m.

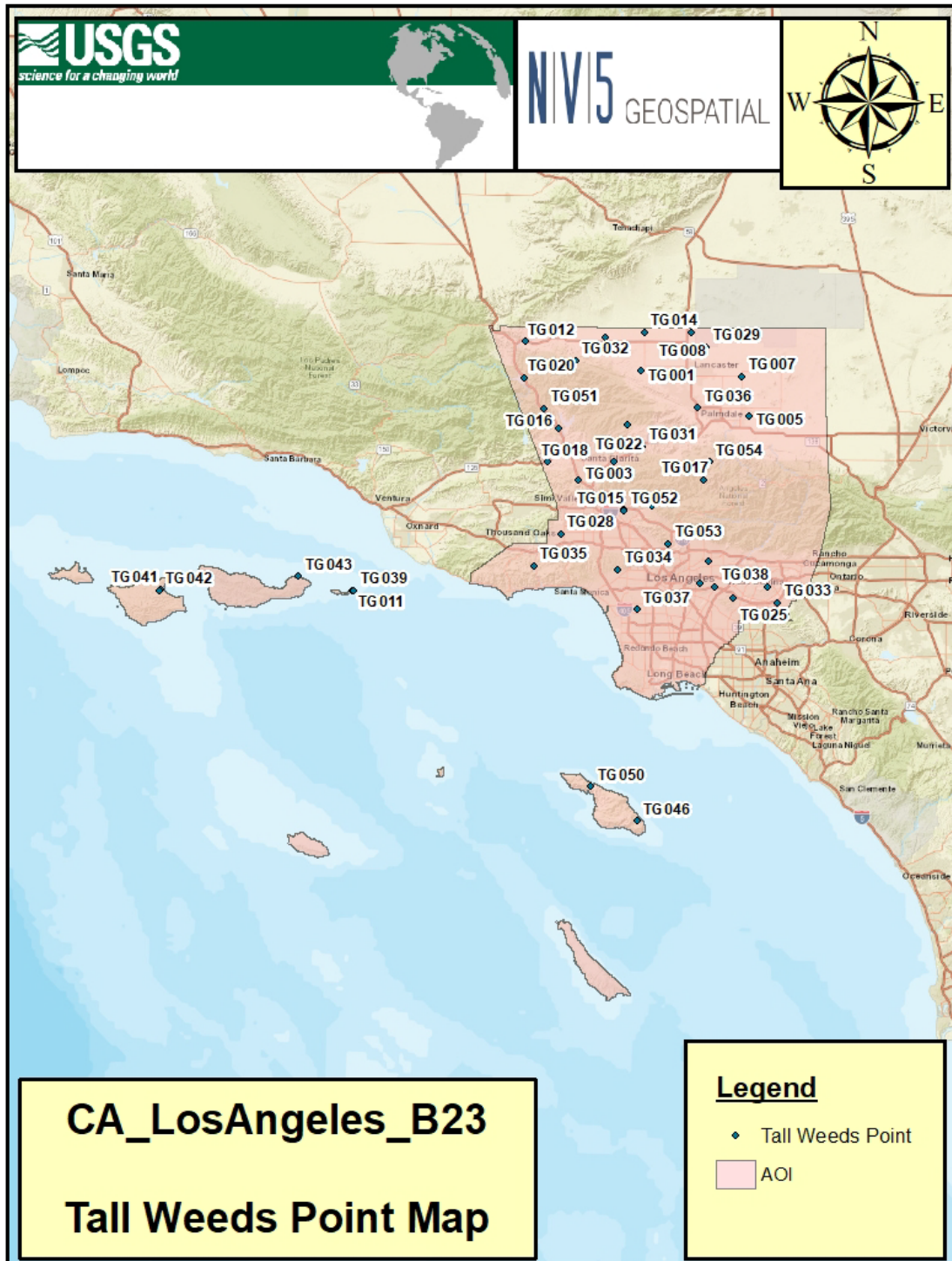
Average 3 dimensional RMSE is 0.012 m.

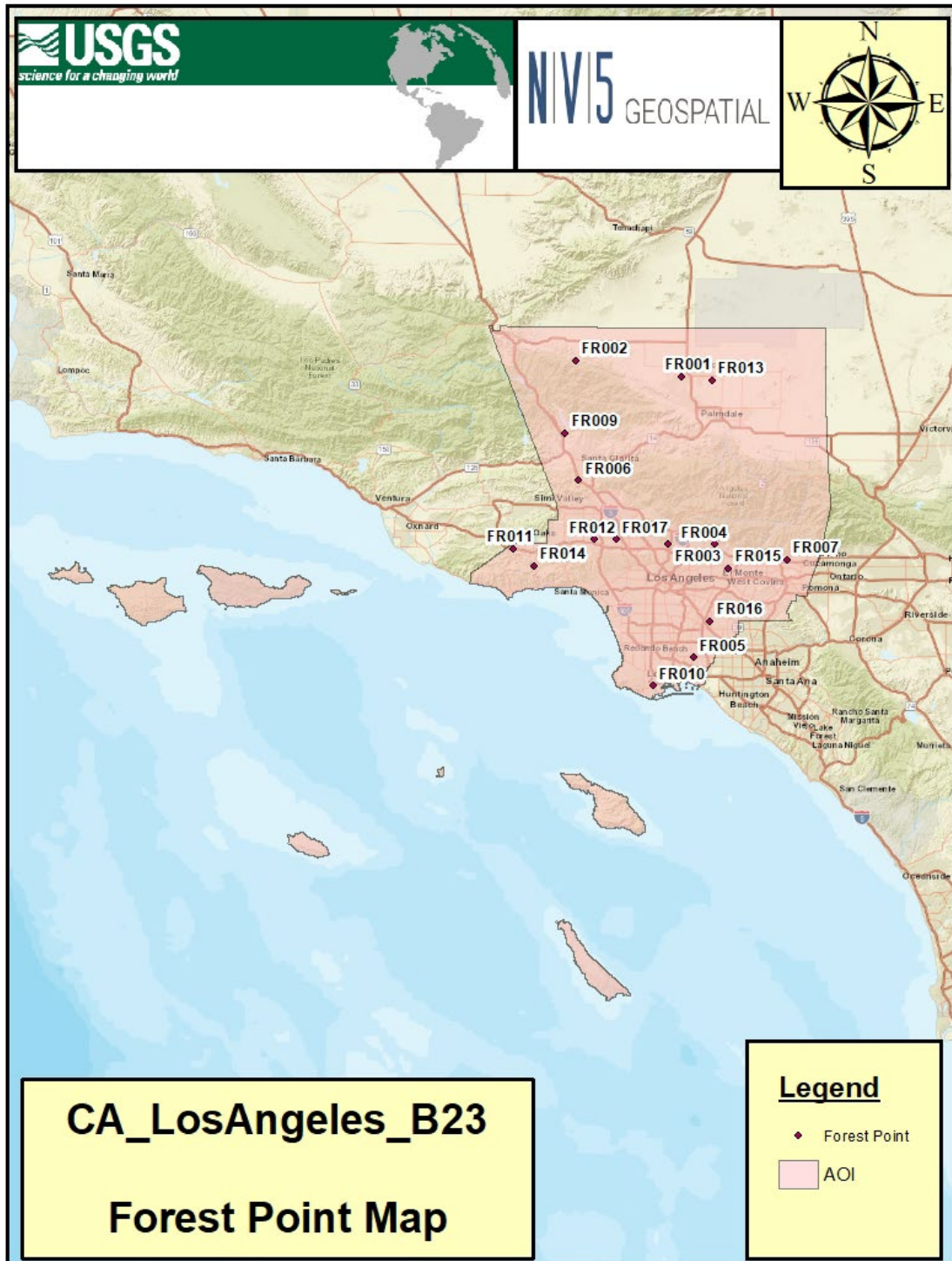
PROJECT AOI & POINT LOCATION MAPS

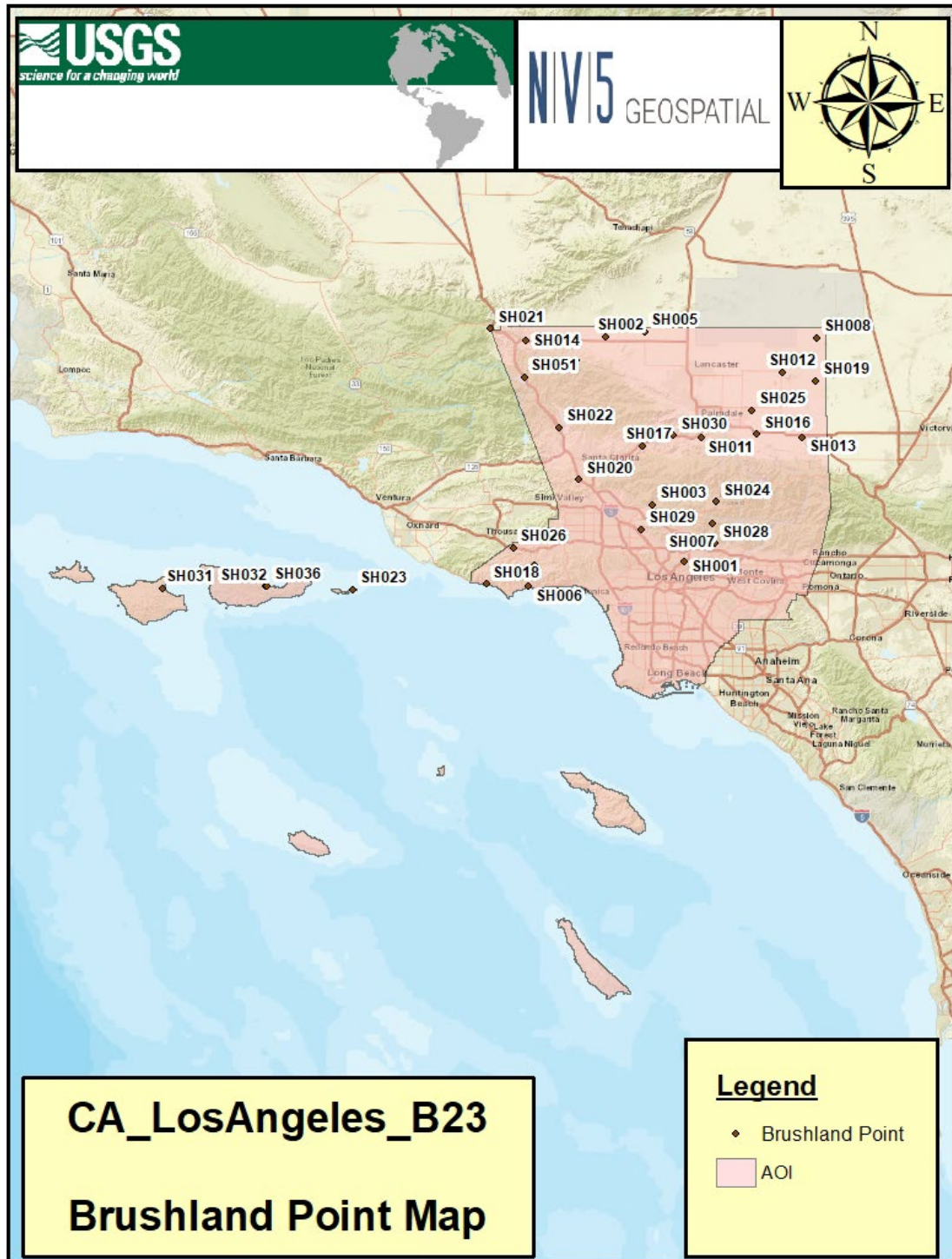












**FINAL POINT COORDINATES
UTM 11 NORTH**

CALIBRATION POINT COORDINATES

Horizontal Datum - NAD83(2011)
 UNIVERSAL TRANSVERSE MERCATOR - ZONE 11N
 Vertical Datum - NAVD 88
 Geoid - GEOID18
 Units – Meters

Point ID	Northing (m)	Easting (m)	Elev. (m)
CA001	3758921.598	403062.481	50.130
CA002	3781627.612	402190.885	337.255
CA003	3762180.553	422983.531	233.281
CA004	3744702.580	371540.054	23.682
CA005	3768459.393	374112.695	41.318
CA006	3793044.347	371813.050	323.754
CA007	3768997.167	321554.131	4.616
CA008	3762094.197	383083.866	51.625
CA009	3773521.197	351991.983	266.313
CA010	3794474.661	381132.144	441.682
CA011	3768559.988	366067.530	82.128
CA012	3775471.676	391962.621	172.473
CA013	3784701.958	423287.270	974.582
CA014	3736285.418	389221.474	2.935
CA015	3748058.611	383512.638	26.433
CA016	3747756.968	370474.713	4.423
CA017	3796989.569	422712.657	1570.165
CA018	3742410.090	371296.583	15.112
CA019	3776456.647	426124.707	335.376
CA020	3752024.270	393633.210	24.871
CA021	3787899.927	384099.397	434.408
CA022	3768191.569	354367.135	89.090
CA023	3768186.826	325774.662	42.974
CA024	3770535.660	386651.279	93.395
CA025	3776081.686	400181.030	156.317
CA026	3736839.600	396636.813	3.039
CA027	3785362.743	395833.829	550.206

CA028	3730806.663	380115.276	70.853
CA029	3759954.993	366407.941	4.574
CA030	3778820.131	349751.155	312.355
CA031	3768628.810	397038.121	135.062
CA032	3786306.945	377539.856	283.589
CA033	3740311.321	387073.061	4.438
CA034	3787652.577	438283.254	1379.866
CA035	3777799.353	434854.307	505.005
CA036	3754467.825	376209.185	18.963
CA037	3756137.974	391211.578	30.565
CA038	3775241.528	416210.291	158.852
CA039	3734436.502	381528.187	5.658
CA040	3767629.466	402144.276	69.654
CA041	3773741.575	406690.009	100.215
CA042	3776896.265	377526.776	260.376
CA043	3767454.144	419641.998	368.960
CA044	3768180.932	325766.111	42.171
CA045	3830599.915	424287.153	809.356
CA046	3802960.410	356806.197	416.474
CA047	3821340.113	373025.876	773.258
CA048	3850635.098	365822.711	830.400
CA049	3812773.165	357212.033	356.257
CA050	3836285.403	401297.313	744.204
CA051	3834785.624	363427.808	858.098
CA052	3849221.507	338993.719	1015.679
CA053	3826013.097	414338.674	825.317
CA054	3793104.778	352118.193	304.466
CA055	3850294.901	436082.750	860.379
CA056	3783275.490	361900.177	217.491
CA057	3843951.991	429122.317	929.255
CA058	3795605.169	402641.741	1128.132
CA059	3783071.244	369206.371	208.062
CA060	3852159.747	391574.369	711.260
CA061	3816918.037	397575.682	988.164
CA062	3839107.998	366528.337	1055.157
CA063	3842820.907	355680.517	1173.477
CA064	3791498.642	398380.157	1416.936
CA065	3847245.724	411205.343	714.077
CA066	3820436.472	350238.052	482.178
CA067	3809160.916	368417.802	458.091

CA068	3811460.473	387641.889	757.912
CA069	3809603.749	426072.912	1437.787
CA070	3810688.175	414610.432	1407.176
CA071	3814070.605	377976.486	646.040
CA072	3792829.513	359713.032	319.145
CA073	3798222.034	396589.433	1050.239
CA074	3781815.868	386585.969	239.068
CA075	3774399.140	341836.290	173.130
CA076	3831998.857	370371.443	890.694
CA077	3809064.832	346528.159	277.699
CA078	3809031.882	400320.340	1276.115
CA079	3851600.939	354546.116	891.588
CA080	3853218.481	327190.976	1246.494
CA081	3776280.325	366829.140	356.016
CA082	3837204.930	338508.495	834.491
CA083	3799112.735	366311.002	438.207
CA084	3778341.825	357122.989	422.998
CA085	3802966.366	371824.796	828.251
CA086	3836651.794	414402.389	762.067
CA087	3838865.758	424562.772	825.047
CA088	3785014.093	350801.077	247.406
CA089	3831585.136	386910.415	905.462
CA090	3827100.107	396285.649	819.315
CA091	3852239.581	378666.031	758.354
CA092	3849966.831	419448.808	710.262
CA093	3821680.174	359354.948	456.024
CA094	3816935.747	431295.222	1063.927
CA095	3817658.696	388102.172	898.472
CA096	3835869.479	435652.080	869.345
CA097	3788333.333	401376.875	1694.595
CA098	3839389.955	377638.236	785.291
CA099	3794660.214	391311.106	1001.413
CA100	3837603.409	390844.077	727.521
CA101	3803140.638	398261.007	1191.391
CA102	3789291.591	366492.057	261.119
CA105	3818087.081	416110.939	960.677
CA106	3847239.583	399335.957	703.369
CA107	3767200.851	218397.479	14.901
CA108	3766248.158	216852.172	117.810
CA109	3766023.103	218550.507	23.644

CA110	3766721.767	218163.245	21.583
CA111	3767206.393	217058.005	122.566
CA112	3770676.299	263551.790	36.886
CA113	3767465.094	252465.203	19.961
CA116	3689604.525	376192.964	20.088
CA117	3690211.801	377038.735	4.382
CA121	3766262.691	281371.485	61.695
CA122	3766223.674	281523.450	68.105
CA123	3766421.073	282111.789	71.360
CA124	3766527.287	281863.517	32.588
CA125	3767441.090	252783.015	66.546
CA126	3770906.128	263292.795	82.444
CA127	3780666.748	417423.347	254.788
CA128	3788823.860	420833.136	456.070
CA129	3791662.488	422258.354	700.635
CA131	3771194.079	263276.612	97.399
CA133	3701197.868	360736.712	4.157
CA134	3799442.643	376537.407	559.186
CA135	3826721.362	345233.500	778.755

BARE EARTH POINT COORDINATES

Horizontal Datum - NAD83(2011)
 UNIVERSAL TRANSVERSE MERCATOR - ZONE 11N
 Vertical Datum - NAVD 88
 Geoid - GEOID18
 Units – Meters

Point ID	Northing (m)	Easting (m)	Elev. (m)
BE001	3781815.771	386635.758	241.064
BE002	3755482.245	406444.195	58.316
BE003	3853217.419	327209.520	1245.464
BE004	3781624.514	402177.551	337.667
BE005	3767490.380	252472.970	23.831
BE006	3852149.927	391578.933	711.160
BE007	3830600.225	424280.669	809.339
BE008	3764996.091	408416.766	118.391
BE009	3810686.344	414607.500	1407.487
BE010	3755125.981	368076.093	26.978
BE011	3793037.521	371826.139	323.146
BE012	3816926.082	431298.625	1064.144
BE013	3777252.781	369090.654	382.295
BE014	3821145.891	405671.660	899.351
BE015	3783273.573	369295.263	209.253
BE016	3849966.076	419453.328	709.966
BE017	3787896.556	384093.921	434.438
BE018	3764191.650	425503.676	253.592
BE019	3839391.048	377641.110	785.252
BE020	3768630.094	397048.849	135.183
BE021	3780278.776	334767.195	291.437
BE022	3766394.067	281747.018	48.062
BE023	3802971.365	371824.358	828.329
BE024	3842817.062	355680.684	1173.670
BE025	3774393.661	341834.287	173.052
BE026	3809033.012	400322.094	1276.090
BE027	3816916.697	397574.768	988.161
BE028	3767356.153	252349.561	4.888
BE029	3768157.346	325770.921	40.352

BE030	3849219.373	338992.049	1015.679
BE031	3831573.815	386910.709	905.738
BE032	3760036.073	376194.855	54.410
BE033	3809602.638	426074.706	1437.995
BE034	3756351.501	391419.120	33.201
BE035	3773770.010	406717.747	100.379
BE036	3776084.229	400194.196	156.397
BE037	3851598.432	354538.426	891.490
BE038	3820433.539	350218.388	481.861
BE039	3785014.527	350791.227	247.516
BE040	3794475.428	381139.936	441.871
BE041	3767453.953	419632.431	369.421
BE042	3770524.566	386638.269	93.636
BE043	3762094.838	383073.817	51.756
BE044	3847242.938	411202.668	714.101
BE045	3852238.128	378664.246	758.338
BE046	3798212.862	396596.779	1049.919
BE047	3777801.394	434867.796	505.384
BE048	3821338.159	373022.572	773.409
BE049	3739520.682	381424.386	9.694
BE050	3768568.830	366023.201	85.025
BE051	3847244.110	399337.051	703.373
BE052	3784700.853	423285.333	974.639
BE053	3838870.268	424565.831	825.171
BE054	3734611.978	369346.953	47.496
BE055	3756013.310	400464.184	41.333
BE056	3817666.389	388100.836	898.766
BE057	3836651.404	414398.392	762.092
BE058	3793109.051	352119.425	304.524
BE059	3783265.008	361904.686	216.746
BE060	3811451.441	387627.496	756.329
BE061	3843959.720	429122.031	929.224
BE062	3768400.399	347996.779	181.962
BE063	3765593.736	218954.325	28.154
BE067	3701152.059	360741.098	6.483
BE068	3771134.990	263273.420	88.942
BE071	3766280.959	281349.666	61.233
BE072	3767458.090	252773.244	65.012
BE073	3700968.521	360534.741	10.380
BE666	3766490.521	281758.181	42.457

URBAN AREA POINT COORDINATES

Horizontal Datum - NAD83(2011)
 UNIVERSAL TRANSVERSE MERCATOR - ZONE 11N
 Vertical Datum - NAVD 88
 Geoid - GEOID18
 Units – Meters

Point ID	Northing (m)	Easting (m)	Elev. (m)
UA001	3783067.984	369204.593	208.056
UA002	3802961.886	356804.637	416.522
UA003	3740304.796	387074.738	4.470
UA004	3770534.243	386654.014	93.384
UA005	3748099.420	401945.620	16.237
UA006	3777801.236	434852.793	505.023
UA007	3775477.560	391956.862	172.730
UA008	3776892.478	377531.731	260.267
UA009	3760178.018	376473.484	53.647
UA010	3785015.943	350798.722	247.452
UA011	3792830.292	359706.958	319.168
UA012	3767452.917	419644.241	368.845
UA013	3837603.779	390838.959	727.569
UA014	3744704.406	371532.434	23.828
UA015	3752026.243	393636.123	24.880
UA016	3735259.866	369739.234	79.855
UA017	3768556.053	366060.829	82.291
UA018	3773744.422	406690.571	100.184
UA019	3748065.079	383513.224	26.532
UA020	3831586.783	386908.189	905.400
UA021	3755078.841	368125.648	27.824
UA022	3775237.746	416208.449	158.855
UA023	3768468.148	374114.373	41.387
UA024	3767866.070	402159.604	70.047
UA025	3799109.790	366310.512	438.010
UA026	3734445.441	381548.520	5.476
UA027	3764154.561	425435.608	251.238
UA028	3736840.207	396639.943	3.028
UA029	3768193.356	354369.610	89.031

UA030	3827095.035	396286.653	819.487
UA031	3787901.901	384097.780	434.483
UA032	3780288.307	334675.184	297.779
UA033	3818087.274	416119.338	960.614
UA034	3786308.678	377538.411	283.654
UA035	3755961.314	400535.745	42.292
UA036	3778571.175	349671.142	316.374
UA037	3809161.954	368416.926	458.102
UA038	3793046.416	371816.031	323.761
UA039	3762092.391	383084.936	51.632
UA040	3763624.000	391930.561	47.763
UA041	3812773.133	357214.587	356.338
UA042	3762252.944	423021.641	233.085
UA043	3821141.168	405676.236	899.187
UA044	3781816.165	386583.499	239.072
UA045	3789291.522	366494.118	261.125
UA046	3764985.204	408425.628	118.802
UA047	3836291.318	401298.593	744.228
UA048	3743857.440	394978.440	11.881
UA049	3776456.482	426129.187	335.297
UA050	3785348.598	395614.887	537.823
UA051	3755503.601	406436.438	57.761
UA052	3781625.932	402191.914	337.129
UA053	3768629.752	397035.979	135.062
UA054	3778339.125	357121.559	423.250
UA056	3690007.498	376474.889	5.765
UA100	3769978.740	374918.624	55.831
UA101	3761744.807	374357.838	69.961

TALL WEED POINT COORDINATES

Horizontal Datum - NAD83(2011)
 UNIVERSAL TRANSVERSE MERCATOR - ZONE 11N
 Vertical Datum - NAVD 88
 Geoid - GEOID18
 Units – Meters

Point ID	Northing (m)	Easting (m)	Elev. (m)
TG001	3839398.443	377638.150	785.564
TG002	3809147.680	368418.482	458.365
TG003	3802958.984	356800.569	416.575
TG004	3767444.016	419620.946	369.972
TG005	3824152.750	413705.150	837.370
TG006	3851594.831	354528.763	891.674
TG007	3837503.220	411127.141	754.863
TG008	3852174.401	394434.148	702.588
TG009	3776079.693	400192.403	156.256
TG010	3794470.974	381147.847	442.289
TG011	3766304.264	281357.322	60.719
TG012	3849210.504	339015.347	1014.560
TG013	3768631.838	397053.669	134.964
TG014	3852222.791	378662.141	758.860
TG015	3793043.524	371828.088	323.481
TG016	3820437.335	350209.918	481.387
TG017	3803145.123	398272.614	1192.595
TG018	3809068.524	346537.600	277.619
TG020	3837196.010	338495.099	834.337
TG021	3778336.288	357134.357	424.405
TG022	3821331.028	373009.546	773.313
TG023	3850651.013	365800.356	830.346
TG025	3763600.659	408192.008	157.433
TG028	3785032.229	350797.797	247.452
TG029	3847233.208	399333.451	703.473
TG030	3778721.089	349731.541	318.798
TG031	3814051.554	377967.736	646.347
TG032	3842822.659	355646.081	1172.998
TG033	3762190.447	423123.269	265.378

TG034	3773310.948	369760.562	145.898
TG035	3774396.671	341821.044	172.912
TG036	3827091.566	396272.160	819.879
TG037	3760027.813	376201.040	54.583
TG038	3767600.369	402160.780	70.069
TG039	3766404.208	281814.696	49.838
TG041	3766620.711	217644.960	28.260
TG042	3766304.404	216978.393	119.953
TG043	3770945.747	263293.663	82.603
TG046	3689606.962	376206.762	20.060
TG050	3701030.503	360719.315	15.803
TG051	3826757.375	345255.080	778.994
TG052	3793031.107	371824.016	322.917
TG053	3781853.043	386586.120	239.942
TG054	3809015.491	400320.493	1276.840

FOREST POINT COORDINATES

Horizontal Datum - NAD83(2011)
 UNIVERSAL TRANSVERSE MERCATOR - ZONE 11N
 Vertical Datum - NAVD 88
 Geoid - GEOID18
 Units – Meters

Point ID	Northing (m)	Easting (m)	Elev. (m)
FR001	3837603.999	390867.522	728.157
FR002	3842813.680	355700.808	1174.793
FR003	3781829.093	386615.451	241.015
FR004	3781624.469	402152.435	338.241
FR005	3743980.420	395118.526	12.390
FR006	3802967.096	356798.882	416.573
FR007	3776465.239	426165.987	335.911
FR008	3778760.178	349756.696	312.444
FR009	3818604.290	352297.471	350.970
FR010	3734571.321	381502.472	5.843
FR011	3780248.530	334783.852	291.534
FR012	3783289.379	361934.711	216.992
FR013	3836282.369	401315.631	744.798
FR014	3774382.248	341856.665	172.851
FR015	3773763.847	406679.433	100.062
FR016	3756004.242	400544.280	41.998
FR017	3783253.448	369287.744	209.011

BRUSHLAND POINT COORDINATES

Horizontal Datum - NAD83(2011)
 UNIVERSAL TRANSVERSE MERCATOR - ZONE 11N
 Vertical Datum - NAVD 88
 Geoid - GEOID18
 Units – Meters

Point ID	Northing (m)	Easting (m)	Elev. (m)
SH001	3775472.941	391953.656	172.515
SH002	3850634.746	365800.480	830.401
SH003	3794482.329	381134.196	441.597
SH004	3842827.669	355705.612	1174.508
SH005	3852228.985	378653.805	758.207
SH006	3767259.053	339880.162	6.712
SH007	3788338.679	401373.988	1694.571
SH008	3850285.564	436078.854	860.914
SH010	3774390.925	341837.147	173.092
SH011	3816922.502	397578.252	988.251
SH012	3838871.999	424559.332	825.526
SH013	3816916.452	431297.354	1064.232
SH014	3849221.842	339024.773	1014.851
SH016	3818078.297	416114.015	961.621
SH017	3814054.939	377975.623	646.753
SH018	3768167.795	325791.208	41.764
SH019	3835864.576	435641.740	870.053
SH020	3802964.483	356807.246	416.514
SH021	3853227.393	327174.770	1245.524
SH022	3820420.637	350236.823	482.526
SH023	3766215.290	281534.818	68.498
SH024	3795591.900	402656.032	1129.793
SH025	3826007.288	414341.549	825.565
SH026	3780275.276	334755.615	295.256
SH028	3781640.299	402173.255	339.311
SH029	3786323.009	377543.353	285.090
SH030	3817668.704	388098.887	898.856
SH031	3766729.232	218100.257	22.396
SH032	3767367.288	252348.839	5.071

SH033	3770668.412	263478.625	36.456
SH036	3767459.553	252759.588	64.276
SH051	3837180.334	338507.898	834.537

**FINAL POINT COORDINATES
CA SPC ZONE V**

CALIBRATION POINT COORDINATES

Horizontal Datum - NAD83(2011)
 State Plane California V FIPS 0405
 Vertical Datum - NAVD 88
 Geoid - GEOID18
 Units – US Survey Foot

Point ID	Northing (ft)	Easting (ft)	Elev. (ft)
CA001	1810142.18	6546728.60	164.47
CA002	1884625.91	6543140.49	1106.48
CA003	2046043.48	6614064.40	2655.36
CA004	1953166.01	6393536.17	1366.38
CA005	2013994.05	6446160.42	2536.93
CA006	2109877.86	6421573.20	2724.40
CA007	1985374.40	6394551.69	1168.82
CA008	1821475.70	6611999.45	765.36
CA009	2063951.39	6538439.81	2441.61
CA010	1762479.15	6443737.35	77.70
CA011	2057797.82	6414232.38	2815.28
CA012	2104363.06	6333597.66	3332.27
CA013	2030668.27	6581567.91	2707.73
CA014	1920679.56	6378471.13	998.90
CA015	2111057.97	6652129.64	2822.76
CA016	1888742.05	6410880.59	713.55
CA017	2090016.13	6629495.81	3048.73
CA018	1930507.51	6544169.91	3701.21
CA019	1888305.43	6434859.95	682.62
CA020	1840516.61	6451425.36	135.56
CA021	1921112.63	6443093.41	1062.18
CA022	2115722.49	6506017.91	2333.53
CA023	1840615.10	6278961.75	15.14
CA024	1819915.66	6481066.19	169.37
CA025	2000279.62	6526857.15	3242.00
CA026	2072080.42	6424264.52	3461.79
CA027	2083908.78	6388552.38	3849.98
CA028	1916894.83	6530318.12	4648.73
CA029	2100239.46	6570594.28	2342.77

CA030	1856421.55	6378681.69	873.73
CA031	2010291.72	6371423.24	1581.95
CA032	1926105.20	6473625.52	1449.09
CA033	1973884.00	6431434.58	1502.92
CA034	1840590.56	6425023.58	269.45
CA035	1982050.11	6494438.01	2486.58
CA036	1864097.05	6509774.11	565.86
CA037	1977201.93	6620606.68	4717.14
CA038	1980388.89	6582957.11	4616.71
CA039	1990302.01	6462639.30	2119.55
CA040	1920019.66	6403398.69	1047.06
CA041	1938899.35	6524225.34	3445.66
CA042	1884742.71	6491927.72	784.34
CA043	1858979.59	6345332.96	568.01
CA044	1895394.11	6612270.98	3197.44
CA045	1735416.70	6502027.14	9.63
CA046	1773871.23	6482919.49	86.72
CA047	1772468.35	6440144.90	14.51
CA048	1935698.74	6609988.33	5151.45
CA049	1754948.67	6443010.82	49.58
CA050	2048880.12	6437105.18	2922.22
CA051	1868427.21	6621848.48	1100.31
CA052	1787206.69	6516005.15	81.60
CA053	1904626.88	6483573.20	1425.22
CA054	1972863.47	6359618.51	911.08
CA055	1974491.16	6536118.71	4186.72
CA056	1839009.96	6386644.04	292.29
CA057	1838089.71	6292833.73	140.99
CA058	2112677.95	6384543.81	2925.15
CA059	2117089.46	6294746.83	4089.54
CA060	1847729.79	6492503.13	306.41
CA061	1866362.30	6536723.22	512.85
CA062	1737470.53	6526344.90	9.97
CA063	1896678.34	6522159.90	1805.13
CA064	1865947.06	6427276.66	1168.03
CA065	2064924.72	6332397.58	2737.83
CA066	1940847.15	6424845.50	1437.68
CA067	1872401.72	6395363.53	1387.79
CA068	1717149.18	6472316.41	232.46
CA069	1812365.93	6426413.92	15.01

CA070	1873736.28	6371160.92	1024.79
CA071	1953668.76	6442812.95	2717.35
CA072	2065580.60	6581430.72	2500.22
CA073	1841804.68	6526648.51	443.12
CA074	2073176.85	6614699.53	2706.84
CA075	1899189.38	6462100.49	930.41
CA076	1894092.12	6374408.30	811.70
CA077	2048060.28	6491385.33	2970.67
CA078	2033648.43	6522293.73	2688.04
CA079	1748560.44	6494849.14	14.56
CA080	2115562.28	6463660.53	2488.03
CA081	2109437.90	6597555.80	2330.25
CA082	1905561.73	6661387.64	4527.11
CA083	1873115.27	6650453.31	1656.84
CA084	2014667.13	6401294.67	1496.14
CA085	2001431.90	6637506.02	3490.57
CA086	2002403.00	6495747.73	2947.74
CA087	2063705.99	6651187.15	2852.18
CA088	1794671.40	6458749.70	62.21
CA089	1906604.50	6540253.62	5559.68
CA090	2073367.46	6460707.68	2576.41
CA091	1927041.58	6507019.94	3285.47
CA092	1800629.12	6507927.26	100.28
CA093	1864120.28	6589351.69	521.17
CA094	1729105.76	6476838.56	18.56
CA095	1838688.77	6543436.72	228.52
CA096	2067935.67	6504096.73	2386.88
CA097	1955093.15	6529551.68	3908.76
CA098	1908628.59	6425754.70	856.69
CA099	2004716.92	6587641.02	3151.82
CA100	1858892.01	6558157.94	328.79
CA101	1868309.73	6462358.83	854.25
CA102	1838674.90	6600863.90	1210.50
CA105	1838070.10	6292805.86	138.36
CA106	2099831.68	6531646.69	2307.64
CA107	1831507.17	5940681.91	48.89
CA108	1828335.88	5935644.51	386.52
CA109	1827650.26	5941219.94	77.57
CA110	1829929.12	5939928.66	70.81
CA111	1831484.07	5936289.88	402.12

CA112	1844304.13	6088647.89	121.02
CA113	1833427.55	6052387.93	65.49
CA116	1581805.40	6460734.40	65.91
CA117	1583824.86	6463491.43	14.38
CA121	1830383.99	6147232.49	202.41
CA122	1830260.75	6147732.16	223.44
CA123	1830926.61	6149655.80	234.12
CA124	1831267.25	6148838.13	106.92
CA125	1833358.69	6053430.95	218.33
CA126	1845049.83	6087791.29	270.49
CA127	1881962.94	6593157.83	835.92
CA128	1908841.44	6604084.38	1496.29
CA129	1918202.73	6608669.70	2298.67
CA131	1845993.72	6087729.23	319.55
CA133	1619374.14	6409647.46	13.64
CA134	1942258.52	6458389.29	1834.60
CA135	2030749.30	6354800.81	2554.97

BARE EARTH POINT COORDINATES

Horizontal Datum - NAD83(2011)
 State Plane California V FIPS 0405
 Vertical Datum - NAVD 88
 Geoid - GEOID18
 Units – US Survey Foot

Point ID	Northing (ft)	Easting (ft)	Elev. (ft)
BE001	1884743.99	6492091.10	790.89
BE002	1798963.43	6557936.28	191.33
BE003	2117086.59	6294807.69	4086.16
BE004	1884615.32	6543096.84	1107.83
BE005	1833510.71	6052412.62	78.19
BE006	2115690.42	6506033.21	2333.20
BE007	2046044.28	6614043.11	2655.31
BE008	1830248.01	6564105.07	388.42
BE009	1980382.79	6582947.55	4617.73
BE010	1796573.18	6432040.79	88.51
BE011	1921090.65	6443136.58	1060.19
BE012	2001400.29	6637517.51	3491.28
BE013	1869210.08	6434666.17	1254.25
BE014	2014415.35	6553285.90	2950.62
BE015	1888972.15	6435145.15	686.52
BE016	2109435.57	6597570.66	2329.28
BE017	1904615.64	6483555.34	1425.32
BE018	1828156.68	6620205.35	831.99
BE019	2073371.14	6460717.07	2576.28
BE020	1841809.24	6526683.67	443.51
BE021	1878045.50	6321953.49	956.16
BE022	1830826.64	6148460.16	157.68
BE023	1953685.15	6442811.36	2717.61
BE024	2083896.17	6388553.05	3850.62
BE025	1858961.55	6345326.57	567.76
BE026	1974494.93	6536124.43	4186.64
BE027	2000275.19	6526854.19	3241.99
BE028	1833066.68	6052012.06	16.04
BE029	1837992.88	6292822.38	132.39

BE030	2104356.00	6333592.25	3332.27
BE031	2048023.14	6491386.66	2971.58
BE032	1812942.79	6458525.80	178.51
BE033	1977198.34	6620612.60	4717.82
BE034	1801336.44	6508601.52	108.93
BE035	1858986.21	6558248.05	329.33
BE036	1866371.07	6536766.35	513.11
BE037	2112669.48	6384518.67	2924.83
BE038	2010281.46	6371358.82	1580.91
BE039	1894093.23	6374375.97	812.06
BE040	1926107.97	6473651.06	1449.71
BE041	1838673.96	6600832.51	1212.01
BE042	1847692.97	6492460.79	307.20
BE043	1819917.44	6481033.19	169.80
BE044	2100230.23	6570585.59	2342.85
BE045	2115557.45	6463654.72	2487.98
BE046	1938869.49	6524249.74	3444.61
BE047	1873122.41	6650497.51	1658.08
BE048	2013987.53	6446149.64	2537.43
BE049	1745786.98	6476337.20	31.80
BE050	1840618.16	6424877.84	278.95
BE051	2099846.57	6531650.14	2307.65
BE052	1895390.42	6612264.66	3197.63
BE053	2073191.75	6614709.42	2707.25
BE054	1729297.48	6436858.92	155.83
BE055	1800515.15	6538294.79	135.61
BE056	2002428.20	6495743.10	2948.70
BE057	2065579.19	6581417.62	2500.30
BE058	1920693.62	6378475.04	999.09
BE059	1888707.80	6410895.72	711.11
BE060	1982020.01	6494391.08	2481.39
BE061	2090041.48	6629494.62	3048.63
BE062	1839493.12	6365735.72	596.99
BE063	1826254.87	5942557.21	92.37
BE067	1619223.94	6409663.27	21.27
BE068	1845799.82	6087720.60	291.80
BE071	1830443.23	6147160.35	200.90
BE072	1833414.14	6053398.38	213.29
BE073	1618615.20	6408991.74	34.06
BE666	1831143.36	6148493.77	139.29

URBAN AREA POINT COORDINATES

Horizontal Datum - NAD83(2011)
 State Plane California V FIPS 0405
 Vertical Datum - NAVD 88
 Geoid - GEOID18
 Units – US Survey Foot

Point ID	Northing (ft)	Easting (ft)	Elev. (ft)
UA001	1888294.67	6434854.22	682.60
UA002	1953170.80	6393531.00	1366.54
UA003	1748539.08	6494854.85	14.67
UA004	1847725.23	6492512.15	306.38
UA005	1774591.43	6543408.91	53.27
UA006	1873121.40	6650448.28	1656.90
UA007	1864116.18	6509755.02	566.70
UA008	1868297.47	6462375.21	853.89
UA009	1813417.43	6459435.58	176.01
UA010	1894098.11	6374400.52	811.85
UA011	1920022.03	6403378.74	1047.14
UA012	1838670.94	6600871.30	1210.12
UA013	2067936.72	6504079.93	2387.03
UA014	1762484.90	6443712.28	78.18
UA015	1787213.26	6516014.65	81.63
UA016	1731435.91	6438125.81	261.99
UA017	1840577.44	6425001.71	269.98
UA018	1858901.37	6558159.69	328.69
UA019	1773892.47	6482921.21	87.05
UA020	2048065.61	6491377.97	2970.47
UA021	1796420.06	6432204.89	91.29
UA022	1864107.81	6589345.77	521.18
UA023	1840545.39	6451430.59	135.78
UA024	1839465.70	6543479.44	229.81
UA025	1940837.47	6424843.98	1437.04
UA026	1729135.74	6476905.00	17.97
UA027	1828032.78	6619983.15	824.27
UA028	1737472.63	6526355.15	9.93
UA029	1839015.90	6386652.11	292.10

UA030	2033631.82	6522297.19	2688.60
UA031	1904633.30	6483567.83	1425.47
UA032	1878073.85	6321651.32	976.96
UA033	2004717.83	6587668.57	3151.61
UA034	1899195.02	6462095.69	930.62
UA035	1800346.80	6538531.29	138.75
UA036	1872916.91	6370906.32	1037.97
UA037	1973887.38	6431431.67	1502.96
UA038	1921119.51	6443103.12	1062.21
UA039	1819909.77	6481069.76	169.40
UA040	1825217.89	6510047.85	156.70
UA041	1985374.37	6394560.07	1169.09
UA042	1821714.49	6612122.19	764.71
UA043	2014400.00	6553301.07	2950.08
UA044	1884743.60	6491919.61	784.36
UA045	1908628.43	6425761.47	856.71
UA046	1830212.56	6564134.50	389.77
UA047	2063970.84	6538443.82	2441.69
UA048	1760448.63	6520679.60	38.98
UA049	1868426.81	6621863.18	1100.05
UA050	1896624.89	6521441.91	1764.51
UA051	1799033.26	6557910.14	189.50
UA052	1884620.43	6543143.92	1106.06
UA053	1841807.71	6526641.45	443.12
UA054	1872392.81	6395358.92	1388.61
UA056	1583136.77	6461647.18	18.91
UA100	1845527.79	6454021.46	183.17
UA101	1818491.43	6452443.48	229.53

TALL WEED POINT COORDINATES

Horizontal Datum - NAD83(2011)
 State Plane California V FIPS 0405
 Vertical Datum - NAVD 88
 Geoid - GEOID18
 Units – US Survey Foot

Point ID	Northing (ft)	Easting (ft)	Elev. (ft)
TG001	2073395.30	6460707.12	2577.31
TG002	1973840.59	6431437.24	1503.82
TG003	1953161.15	6393517.75	1366.71
TG004	1838640.98	6600795.14	1213.82
TG005	2024543.04	6579549.51	2747.27
TG006	2112657.34	6384487.08	2925.43
TG007	2068267.76	6570655.50	2476.58
TG008	2115864.10	6515401.13	2305.07
TG009	1866356.12	6536760.61	512.65
TG010	1926093.61	6473677.16	1451.08
TG011	1830519.91	6147184.73	199.21
TG012	2104327.67	6333668.97	3328.60
TG013	1841815.12	6526699.43	442.79
TG014	2115507.06	6463648.32	2489.69
TG015	1921110.41	6443142.78	1061.29
TG016	2010293.64	6371330.91	1579.35
TG017	1955108.24	6529589.62	3912.71
TG018	1972875.89	6359649.37	910.82
TG020	2064895.02	6332353.93	2737.32
TG021	1872383.91	6395401.01	1392.40
TG022	2013963.71	6446107.13	2537.11
TG023	2109929.34	6421499.33	2724.23
TG025	1825661.47	6563412.21	516.51
TG028	1894151.52	6374396.96	811.85
TG029	2099810.68	6531638.68	2307.98
TG030	1873410.70	6371099.71	1045.92
TG031	1990239.22	6462611.21	2120.56
TG032	2083913.40	6388439.34	3848.41
TG033	1821512.66	6612457.72	870.66

TG034	1856297.31	6436990.06	478.67
TG035	1858971.00	6345283.02	567.30
TG036	2033619.97	6522249.75	2689.89
TG037	1812915.88	6458546.36	179.08
TG038	1838593.81	6543491.81	229.89
TG039	1830862.02	6148681.84	163.51
TG041	1829581.82	5938232.42	92.72
TG042	1828524.19	5936056.63	393.55
TG043	1845179.79	6087792.90	271.01
TG046	1581813.83	6460779.62	65.81
TG050	1618824.34	6409595.56	51.85
TG051	2030868.15	6354870.44	2555.75
TG052	1921069.54	6443129.82	1059.44
TG053	1884864.70	6491927.03	787.21
TG054	1974437.38	6536119.75	4189.10

FOREST POINT COORDINATES

Horizontal Datum - NAD83(2011)
 State Plane California V FIPS 0405
 Vertical Datum - NAVD 88
 Geoid - GEOID18
 Units – US Survey Foot

Point ID	Northing (ft)	Easting (ft)	Elev. (ft)
FR001	2067938.37	6504173.64	2388.96
FR002	2083885.73	6388619.19	3854.30
FR003	1884787.05	6492024.04	790.73
FR004	1884614.36	6543014.42	1109.71
FR005	1760856.67	6521135.42	40.65
FR006	1953187.71	6393511.95	1366.71
FR007	1868456.74	6621983.67	1102.07
FR008	1873539.75	6371181.00	1025.08
FR009	2004347.15	6378239.14	1151.47
FR010	1729547.38	6476749.91	19.17
FR011	1877946.80	6322009.10	956.47
FR012	1888788.72	6410993.46	711.92
FR013	2063942.03	6538500.02	2443.56
FR014	1858924.81	6345400.35	567.10
FR015	1858964.75	6558122.52	328.29
FR016	1800487.95	6538557.93	137.79
FR017	1888905.88	6435121.12	685.73

BRUSHLAND POINT COORDINATES

Horizontal Datum - NAD83(2011)
 State Plane California V FIPS 0405
 Vertical Datum - NAVD 88
 Geoid - GEOID18
 Units – US Survey Foot

Point ID	Northing (ft)	Easting (ft)	Elev. (ft)
SH001	1864100.92	6509744.65	565.99
SH002	2109875.98	6421500.27	2724.41
SH003	1926130.43	6473632.01	1448.81
SH004	2083931.78	6388634.49	3853.37
SH005	2115527.11	6463620.76	2487.55
SH006	1835491.38	6339141.21	22.02
SH007	1906621.95	6540243.98	5559.61
SH008	2111027.20	6652117.16	2824.52
SH010	1858952.66	6345336.04	567.89
SH011	2000294.35	6526865.44	3242.29
SH012	2073197.21	6614688.04	2708.41
SH013	2001368.65	6637513.65	3491.57
SH014	2104365.17	6333699.52	3329.56
SH016	2004688.20	6587651.40	3154.92
SH017	1990250.58	6462636.98	2121.89
SH018	1838027.80	6292888.61	137.02
SH019	2063689.56	6651153.38	2854.50
SH020	1953179.41	6393539.48	1366.51
SH021	2117118.17	6294693.37	4086.36
SH022	2010239.73	6371419.72	1583.09
SH023	1830233.61	6147769.71	224.73
SH024	1930464.43	6544217.24	3706.66
SH025	2030649.30	6581577.54	2708.54
SH026	1878033.65	6321915.61	968.69
SH028	1884666.98	6543082.23	1113.22
SH029	1899242.21	6462111.45	935.33
SH030	2002435.73	6495736.63	2949.00
SH031	1829951.66	5939721.91	73.48
SH032	1833103.18	6052009.35	16.64

SH033	1844275.98	6088408.17	119.61
SH036	1833418.52	6053353.55	210.88
SH051	2064844.01	6332396.42	2737.98

NVA-VVA LOCATION AND ACCURACY DATA SHEETS

BARE EARTH POINT LOG SHEETS

Point ID	BE001
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Los Angeles
Quad	Pasadena

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3781815.771	386635.758	241.064

Operator	LJR
Receiver Model	Trimble R12
Receiver S/N	0455
Antenna Height	2.000 m

Date (MM-DD-YYYY)	10-10-2023
RMSE Hz	0.006 m
RMSE Z	0.012 m
GPS Method	RTK

PHOTOS



Point ID	BE002
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Los Angeles
Quad	Whittier

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3755482.245	406444.195	58.316

Operator	SB
Receiver Model	Trimble R12
Receiver S/N	1107
Antenna Height	2.000 m

Date (MM-DD-YYYY)	09-22-2023
RMSE Hz	0.005 m
RMSE Z	0.009 m
GPS Method	RTK

PHOTOS



Point ID	BE003
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Kern
Quad	Frazier Mountain

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

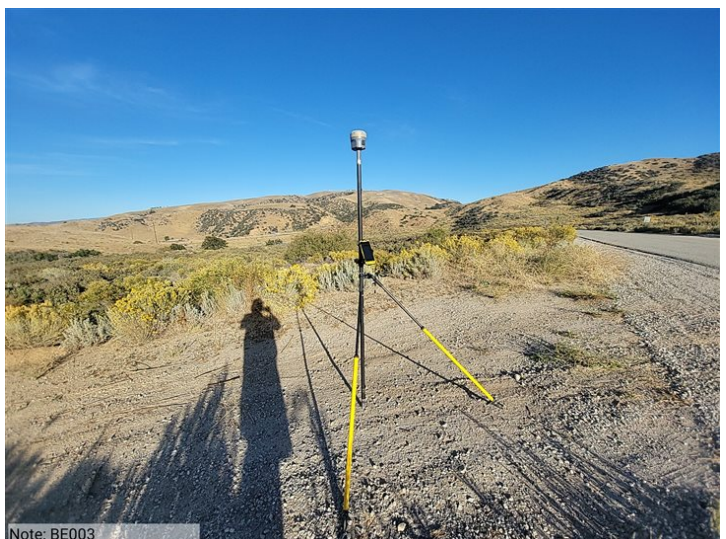
Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3853217.419	327209.520	1245.464

Operator	LJR
Receiver Model	Trimble R12
Receiver S/N	0455
Antenna Height	2.000 m

Date (MM-DD-YYYY)	10-13-2023
RMSE Hz	0.004 m
RMSE Z	0.008 m
GPS Method	RTK

PHOTOS



Point ID	BE004
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Los Angeles
Quad	Mount Wilson

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3781624.514	402177.551	337.667

Operator	LJR
Receiver Model	Trimble R12
Receiver S/N	0455
Antenna Height	2.000 m

Date (MM-DD-YYYY)	10-08-2023
RMSE Hz	0.005 m
RMSE Z	0.013 m
GPS Method	RTK

PHOTOS



Point ID	BE005
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Santa Barbara
Quad	Santa Cruz Island C OE N

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3767490.380	252472.970	23.831

Operator	BKE
Receiver Model	Trimble R12
Receiver S/N	0455
Antenna Height	2.000 m

Date (MM-DD-YYYY)	10-27-2023
RMSE Hz	0.008 m
RMSE Z	0.020 m
GPS Method	Fast-Static

PHOTOS



Point ID	BE006
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Los Angeles
Quad	Rosamond

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3852149.927	391578.933	711.160

Operator	LJR
Receiver Model	Trimble R12
Receiver S/N	0455
Antenna Height	2.000 m

Date (MM-DD-YYYY)	10-15-2023
RMSE Hz	0.002 m
RMSE Z	0.006 m
GPS Method	RTK

PHOTOS



Point ID	BE007
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Los Angeles
Quad	Lovejoy Buttes

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3830600.225	424280.669	809.339

Operator	LJR
Receiver Model	Trimble R12
Receiver S/N	0455
Antenna Height	2.000 m

Date (MM-DD-YYYY)	10-15-2023
RMSE Hz	0.008 m
RMSE Z	0.013 m
GPS Method	RTK

PHOTOS



Point ID	BE008
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Los Angeles
Quad	Baldwin Park

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3764996.091	408416.766	118.391

Operator	SB
Receiver Model	Trimble R12
Receiver S/N	1107
Antenna Height	2.000 m

Date (MM-DD-YYYY)	09-22-2023
RMSE Hz	0.005 m
RMSE Z	0.009 m
GPS Method	RTK

PHOTOS



Point ID	BE009
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Los Angeles
Quad	Juniper Hills

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3810686.344	414607.500	1407.487

Operator	LJR
Receiver Model	Trimble R12
Receiver S/N	0455
Antenna Height	2.000 m

Date (MM-DD-YYYY)	10-16-2023
RMSE Hz	0.006 m
RMSE Z	0.010 m
GPS Method	RTK

PHOTOS



Point ID	BE010
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Los Angeles
Quad	Venice

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3755125.981	368076.093	26.978

Operator	SB
Receiver Model	Trimble R12
Receiver S/N	1107
Antenna Height	2.000 m

Date (MM-DD-YYYY)	09-23-2023
RMSE Hz	0.004 m
RMSE Z	0.010 m
GPS Method	RTK

PHOTOS



Point ID	BE011
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Los Angeles
Quad	San Fernando

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3793037.521	371826.139	323.146

Operator	LJR
Receiver Model	Trimble R12
Receiver S/N	0455
Antenna Height	2.000 m

Date (MM-DD-YYYY)	10-08-2023
RMSE Hz	0.004 m
RMSE Z	0.011 m
GPS Method	RTK

PHOTOS



Point ID	BE012
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Los Angeles
Quad	Mescal Creek

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3816926.082	431298.625	1064.144

Operator	LJR
Receiver Model	Trimble R12
Receiver S/N	0455
Antenna Height	2.000 m

Date (MM-DD-YYYY)	10-16-2023
RMSE Hz	0.006 m
RMSE Z	0.011 m
GPS Method	RTK

PHOTOS



Point ID	BE013
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Los Angeles
Quad	Van Nuys

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3777252.781	369090.654	382.295

Operator	LJR
Receiver Model	Trimble R12
Receiver S/N	0455
Antenna Height	2.000 m

Date (MM-DD-YYYY)	10-11-2023
RMSE Hz	0.004 m
RMSE Z	0.012 m
GPS Method	RTK

PHOTOS



Point ID	BE014
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Los Angeles
Quad	Palmdale

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

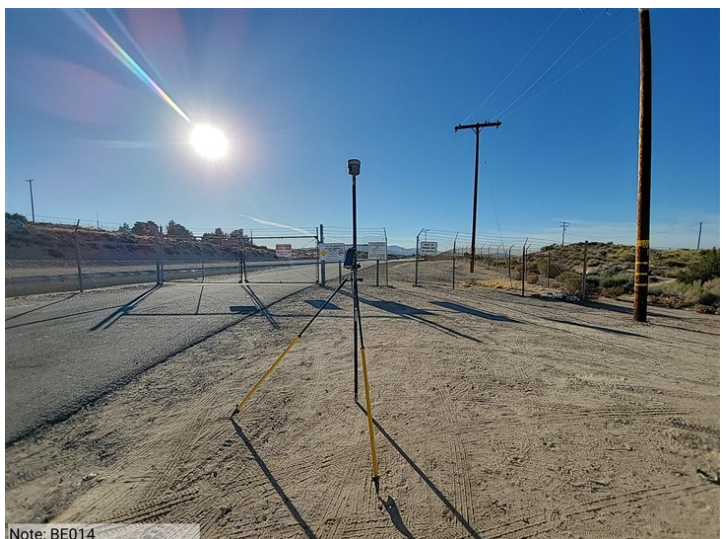
Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3821145.891	405671.660	899.351

Operator	LJR
Receiver Model	Trimble R12
Receiver S/N	0455
Antenna Height	2.000 m

Date (MM-DD-YYYY)	10-16-2023
RMSE Hz	0.006 m
RMSE Z	0.010 m
GPS Method	RTK

PHOTOS



Point ID	BE015
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Los Angeles
Quad	Van Nuys

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3783273.573	369295.263	209.253

Operator	LJR
Receiver Model	Trimble R12
Receiver S/N	0455
Antenna Height	2.000 m

Date (MM-DD-YYYY)	10-11-2023
RMSE Hz	0.004 m
RMSE Z	0.010 m
GPS Method	RTK

PHOTOS



Point ID	BE016
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Los Angeles
Quad	Redman

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3849966.076	419453.328	709.966

Operator	LJR
Receiver Model	Trimble R12
Receiver S/N	0455
Antenna Height	2.000 m

Date (MM-DD-YYYY)	10-15-2023
RMSE Hz	0.006 m
RMSE Z	0.011 m
GPS Method	RTK

PHOTOS



Point ID	BE017
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Los Angeles
Quad	Burbank

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3787896.556	384093.921	434.438

Operator	LJR
Receiver Model	Trimble R12
Receiver S/N	0455
Antenna Height	2.000 m

Date (MM-DD-YYYY)	10-08-2023
RMSE Hz	0.003 m
RMSE Z	0.008 m
GPS Method	RTK

PHOTOS



Point ID	BE018
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Los Angeles
Quad	San Dimas

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3764191.650	425503.676	253.592

Operator	SB
Receiver Model	Trimble R12
Receiver S/N	1107
Antenna Height	2.000 m

Date (MM-DD-YYYY)	09-22-2023
RMSE Hz	0.005 m
RMSE Z	0.012 m
GPS Method	RTK

PHOTOS



Point ID	BE019
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Los Angeles
Quad	Del Sur

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3839391.048	377641.110	785.252

Operator	LJR
Receiver Model	Trimble R12
Receiver S/N	0455
Antenna Height	2.000 m

Date (MM-DD-YYYY)	10-14-2023
RMSE Hz	0.004 m
RMSE Z	0.009 m
GPS Method	RTK

PHOTOS



Point ID	BE020
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Los Angeles
Quad	El Monte

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3768630.094	397048.849	135.183

Operator	LJR
Receiver Model	Trimble R12
Receiver S/N	0455
Antenna Height	2.000 m

Date (MM-DD-YYYY)	10-07-2023
RMSE Hz	0.005 m
RMSE Z	0.012 m
GPS Method	RTK

PHOTOS



Point ID	BE021
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Los Angeles
Quad	Thousand Oaks

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3780278.776	334767.195	291.437

Operator	SB
Receiver Model	Trimble R12
Receiver S/N	1107
Antenna Height	2.000 m

Date (MM-DD-YYYY)	09-24-2023
RMSE Hz	0.006 m
RMSE Z	0.015 m
GPS Method	RTK

PHOTOS



Point ID	BE022
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Ventura
Quad	Anacapa Island OE E

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3766394.067	281747.018	48.062

Operator	CR
Receiver Model	Trimble R12
Receiver S/N	0455
Antenna Height	2.000 m

Date (MM-DD-YYYY)	11-03-2023
RMSE Hz	0.006 m
RMSE Z	0.017 m
GPS Method	RTK

PHOTOS



Point ID	BE023
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Los Angeles
Quad	San Fernando

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3802971.365	371824.358	828.329

Operator	LJR
Receiver Model	Trimble R12
Receiver S/N	0455
Antenna Height	2.000 m

Date (MM-DD-YYYY)	10-12-2023
RMSE Hz	0.004 m
RMSE Z	0.017 m
GPS Method	RTK

PHOTOS



Point ID	BE024
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Los Angeles
Quad	Burnt Peak

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3842817.062	355680.684	1173.670

Operator	LJR
Receiver Model	Trimble R12
Receiver S/N	0455
Antenna Height	2.000 m

Date (MM-DD-YYYY)	10-13-2023
RMSE Hz	0.003 m
RMSE Z	0.008 m
GPS Method	RTK

PHOTOS



Point ID	BE025
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Los Angeles
Quad	Malibu Beach

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3774393.661	341834.287	173.052

Operator	LJR
Receiver Model	Trimble R12
Receiver S/N	0455
Antenna Height	2.000 m

Date (MM-DD-YYYY)	10-10-2023
RMSE Hz	0.003 m
RMSE Z	0.008 m
GPS Method	RTK

PHOTOS



Point ID	BE026
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Los Angeles
Quad	Pacifico Mountain

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3809033.012	400322.094	1276.090

Operator	LJR
Receiver Model	Trimble R12
Receiver S/N	0455
Antenna Height	2.000 m

Date (MM-DD-YYYY)	10-09-2023
RMSE Hz	0.007 m
RMSE Z	0.011 m
GPS Method	RTK

PHOTOS



Point ID	BE027
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Los Angeles
Quad	Pacifico Mountain

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

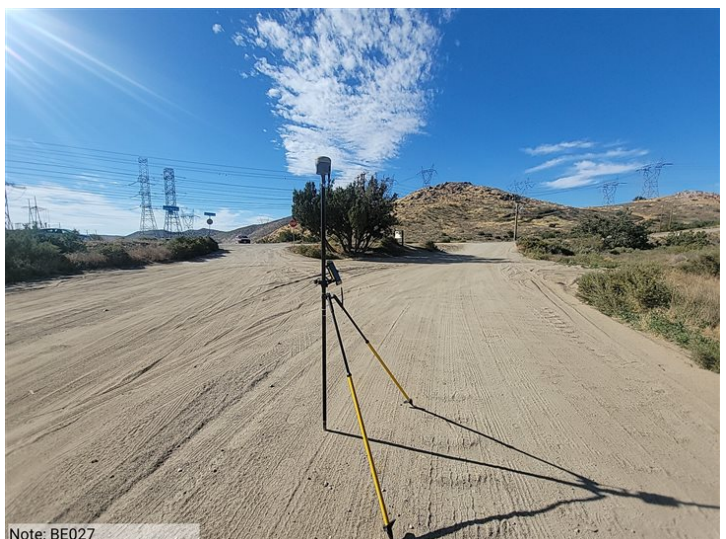
Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3816916.697	397574.768	988.161

Operator	LJR
Receiver Model	Trimble R12
Receiver S/N	0455
Antenna Height	2.000 m

Date (MM-DD-YYYY)	10-09-2023
RMSE Hz	0.006 m
RMSE Z	0.010 m
GPS Method	RTK

PHOTOS



Point ID	BE028
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Santa Barbara
Quad	Santa Cruz Island C OE N

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3767356.153	252349.561	4.888

Operator	BKE
Receiver Model	Trimble R12
Receiver S/N	0455
Antenna Height	2.000 m

Date (MM-DD-YYYY)	10-27-2023
RMSE Hz	0.008 m
RMSE Z	0.019 m
GPS Method	Fast-Static

PHOTOS



Point ID	BE029
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Los Angeles
Quad	Triunfo Pass

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3768157.346	325770.921	40.352

Operator	SB
Receiver Model	Trimble R12
Receiver S/N	1107
Antenna Height	2.000 m

Date (MM-DD-YYYY)	09-24-2023
RMSE Hz	0.005 m
RMSE Z	0.009 m
GPS Method	RTK

PHOTOS



Point ID	BE030
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Los Angeles
Quad	Lebec

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3849219.373	338992.049	1015.679

Operator	LJR
Receiver Model	Trimble R12
Receiver S/N	0455
Antenna Height	2.000 m

Date (MM-DD-YYYY)	10-13-2023
RMSE Hz	0.004 m
RMSE Z	0.008 m
GPS Method	RTK

PHOTOS



Point ID	BE031
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Los Angeles
Quad	Ritter Ridge

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

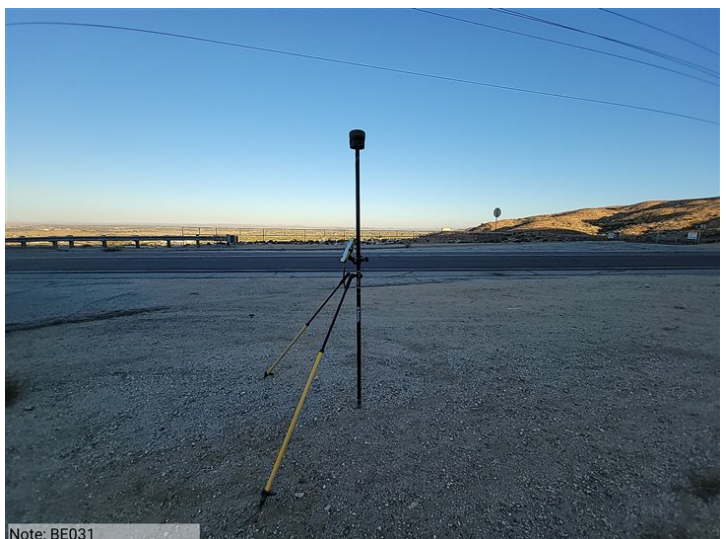
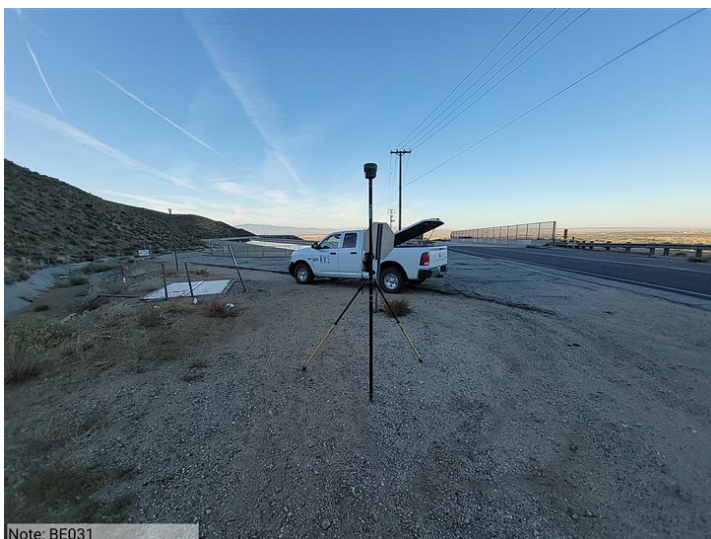
Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3831573.815	386910.709	905.738

Operator	LJR
Receiver Model	Trimble R12
Receiver S/N	0455
Antenna Height	2.000 m

Date (MM-DD-YYYY)	10-16-2023
RMSE Hz	0.011 m
RMSE Z	0.015 m
GPS Method	RTK

PHOTOS



Point ID	BE032
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Los Angeles
Quad	Inglewood

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3760036.073	376194.855	54.410

Operator	LJR
Receiver Model	Trimble R12
Receiver S/N	0455
Antenna Height	2.000 m

Date (MM-DD-YYYY)	10-07-2023
RMSE Hz	0.005 m
RMSE Z	0.012 m
GPS Method	RTK

PHOTOS



Point ID	BE033
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Los Angeles
Quad	Valyermo

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3809602.638	426074.706	1437.995

Operator	LJR
Receiver Model	Trimble R12
Receiver S/N	0455
Antenna Height	2.000 m

Date (MM-DD-YYYY)	10-16-2023
RMSE Hz	0.009 m
RMSE Z	0.013 m
GPS Method	RTK

PHOTOS



Point ID	BE034
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Los Angeles
Quad	South Gate

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3756351.501	391419.120	33.201

Operator	SB
Receiver Model	Trimble R12
Receiver S/N	1107
Antenna Height	2.000 m

Date (MM-DD-YYYY)	09-23-2023
RMSE Hz	0.007 m
RMSE Z	0.016 m
GPS Method	RTK

PHOTOS



Point ID	BE035
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Los Angeles
Quad	El Monte

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3773770.010	406717.747	100.379

Operator	LJR
Receiver Model	Trimble R12
Receiver S/N	0455
Antenna Height	2.000 m

Date (MM-DD-YYYY)	10-06-2023
RMSE Hz	0.003 m
RMSE Z	0.008 m
GPS Method	RTK

PHOTOS



Point ID	BE036
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Los Angeles
Quad	El Monte

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3776084.229	400194.196	156.397

Operator	LJR
Receiver Model	Trimble R12
Receiver S/N	0455
Antenna Height	2.000 m

Date (MM-DD-YYYY)	10-08-2023
RMSE Hz	0.005 m
RMSE Z	0.016 m
GPS Method	RTK

PHOTOS



Point ID	BE037
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Los Angeles
Quad	Neenach School

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3851598.432	354538.426	891.490

Operator	LJR
Receiver Model	Trimble R12
Receiver S/N	0455
Antenna Height	2.000 m

Date (MM-DD-YYYY)	10-14-2023
RMSE Hz	0.003 m
RMSE Z	0.008 m
GPS Method	RTK

PHOTOS



Point ID	BE038
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Los Angeles
Quad	Whitaker Peak

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3820433.539	350218.388	481.861

Operator	LJR
Receiver Model	Trimble R12
Receiver S/N	0455
Antenna Height	2.000 m

Date (MM-DD-YYYY)	10-14-2023
RMSE Hz	0.002 m
RMSE Z	0.005 m
GPS Method	RTK

PHOTOS



Point ID	BE039
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Los Angeles
Quad	Canoga Park

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3785014.527	350791.227	247.516

Operator	LJR
Receiver Model	Trimble R12
Receiver S/N	0455
Antenna Height	2.000 m

Date (MM-DD-YYYY)	10-10-2023
RMSE Hz	0.004 m
RMSE Z	0.008 m
GPS Method	RTK

PHOTOS



Point ID	BE040
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Los Angeles
Quad	Sunland

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3794475.428	381139.936	441.871

Operator	LJR
Receiver Model	Trimble R12
Receiver S/N	0455
Antenna Height	2.000 m

Date (MM-DD-YYYY)	10-08-2023
RMSE Hz	0.004 m
RMSE Z	0.012 m
GPS Method	RTK

PHOTOS



Point ID	BE041
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Los Angeles
Quad	San Dimas

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3767453.953	419632.431	369.421

Operator	LJR
Receiver Model	Trimble R12
Receiver S/N	0455
Antenna Height	2.000 m

Date (MM-DD-YYYY)	10-06-2023
RMSE Hz	0.003 m
RMSE Z	0.016 m
GPS Method	RTK

PHOTOS



Point ID	BE042
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Los Angeles
Quad	Los Angeles

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3770524.566	386638.269	93.636

Operator	LJR
Receiver Model	Trimble R12
Receiver S/N	0455
Antenna Height	2.000 m

Date (MM-DD-YYYY)	10-07-2023
RMSE Hz	0.003 m
RMSE Z	0.009 m
GPS Method	RTK

PHOTOS



Point ID	BE043
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Los Angeles
Quad	Inglewood

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3762094.838	383073.817	51.756

Operator	LJR
Receiver Model	Trimble R12
Receiver S/N	0455
Antenna Height	2.000 m

Date (MM-DD-YYYY)	10-07-2023
RMSE Hz	0.003 m
RMSE Z	0.008 m
GPS Method	RTK

PHOTOS



Point ID	BE044
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Los Angeles
Quad	Redman

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

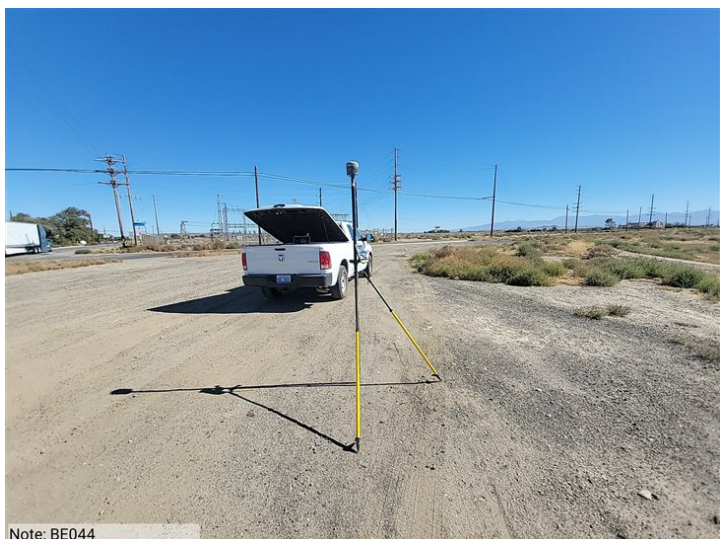
Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3847242.938	411202.668	714.101

Operator	LJR
Receiver Model	Trimble R12
Receiver S/N	0455
Antenna Height	2.000 m

Date (MM-DD-YYYY)	10-15-2023
RMSE Hz	0.006 m
RMSE Z	0.011 m
GPS Method	RTK

PHOTOS



Point ID	BE045
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Los Angeles
Quad	Little Buttes

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

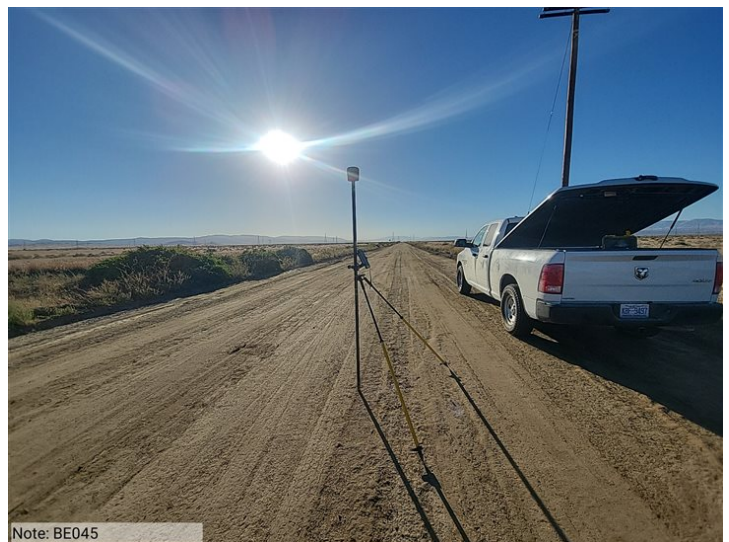
Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3852238.128	378664.246	758.338

Operator	LJR
Receiver Model	Trimble R12
Receiver S/N	0455
Antenna Height	2.000 m

Date (MM-DD-YYYY)	10-14-2023
RMSE Hz	0.009 m
RMSE Z	0.017 m
GPS Method	RTK

PHOTOS



Point ID	BE046
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Los Angeles
Quad	Chilao Flat

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

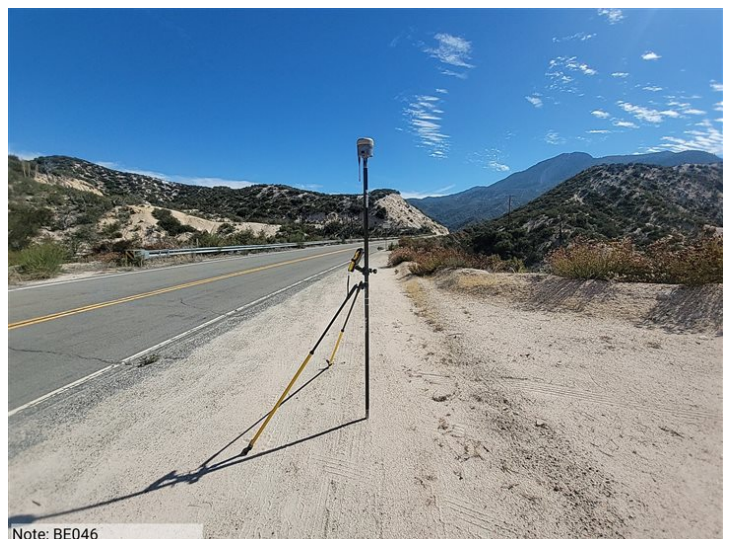
Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3798212.862	396596.779	1049.919

Operator	LJR
Receiver Model	Trimble R12
Receiver S/N	0455
Antenna Height	2.000 m

Date (MM-DD-YYYY)	10-09-2023
RMSE Hz	0.009 m
RMSE Z	0.013 m
GPS Method	RTK

PHOTOS



Point ID	BE047
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Los Angeles
Quad	Mount Baldy

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

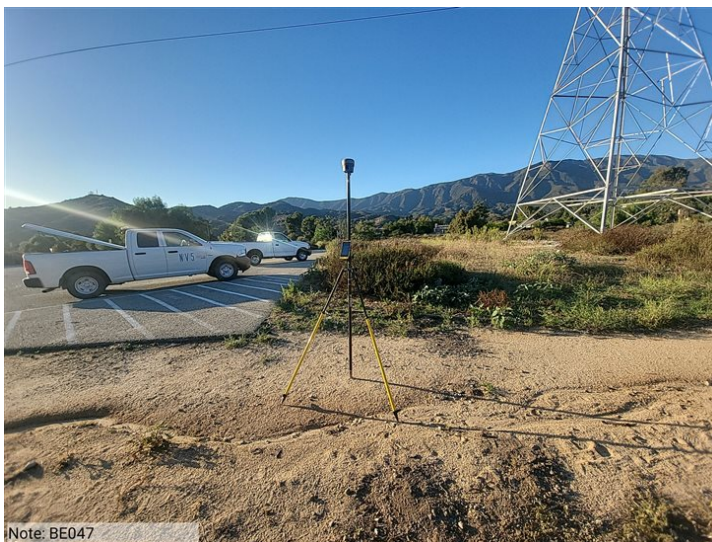
Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3777801.394	434867.796	505.384

Operator	LJR
Receiver Model	Trimble R12
Receiver S/N	0455
Antenna Height	2.000 m

Date (MM-DD-YYYY)	10-05-2023
RMSE Hz	0.003 m
RMSE Z	0.006 m
GPS Method	RTK

PHOTOS



Point ID	BE048
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Los Angeles
Quad	Green Valley

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3821338.159	373022.572	773.409

Operator	LJR
Receiver Model	Trimble R12
Receiver S/N	0455
Antenna Height	2.000 m

Date (MM-DD-YYYY)	10-12-2023
RMSE Hz	0.003 m
RMSE Z	0.005 m
GPS Method	RTK

PHOTOS



Point ID	BE049
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Los Angeles
Quad	Torrance

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3739520.682	381424.386	9.694

Operator	SB
Receiver Model	Trimble R12
Receiver S/N	1107
Antenna Height	2.000 m

Date (MM-DD-YYYY)	09-21-2023
RMSE Hz	0.005 m
RMSE Z	0.016 m
GPS Method	RTK

PHOTOS



Point ID	BE050
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Los Angeles
Quad	Beverly Hills

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3768568.830	366023.201	85.025

Operator	SB
Receiver Model	Trimble R12
Receiver S/N	1107
Antenna Height	2.000 m

Date (MM-DD-YYYY)	09-23-2023
RMSE Hz	0.004 m
RMSE Z	0.010 m
GPS Method	RTK

PHOTOS



Point ID	BE051
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Los Angeles
Quad	Rosamond Lake

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

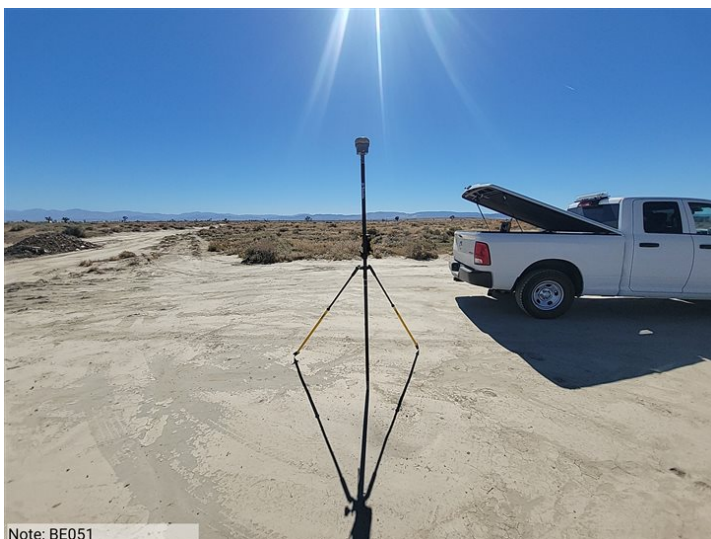
Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3847244.110	399337.051	703.373

Operator	LJR
Receiver Model	Trimble R12
Receiver S/N	0455
Antenna Height	2.000 m

Date (MM-DD-YYYY)	10-15-2023
RMSE Hz	0.006 m
RMSE Z	0.011 m
GPS Method	RTK

PHOTOS



Point ID	BE052
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Los Angeles
Quad	Glendora

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3784700.853	423285.333	974.639

Operator	LJR
Receiver Model	Trimble R12
Receiver S/N	0455
Antenna Height	2.000 m

Date (MM-DD-YYYY)	10-06-2023
RMSE Hz	0.005 m
RMSE Z	0.013 m
GPS Method	RTK

PHOTOS



Point ID	BE053
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Los Angeles
Quad	Hi Vista

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northings	Easting	Elevation
3838870.268	424565.831	825.171

Operator	LJR
Receiver Model	Trimble R12
Receiver S/N	0455
Antenna Height	2.000 m

Date (MM-DD-YYYY)	10-15-2023
RMSE Hz	0.006 m
RMSE Z	0.011 m
GPS Method	RTK

PHOTOS



Point ID	BE054
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Los Angeles
Quad	Redondo Beach OE S

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3734611.978	369346.953	47.496

Operator	SB
Receiver Model	Trimble R12
Receiver S/N	1107
Antenna Height	2.000 m

Date (MM-DD-YYYY)	09-21-2023
RMSE Hz	0.006 m
RMSE Z	0.016 m
GPS Method	RTK

PHOTOS



Point ID	BE055
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Los Angeles
Quad	Whittier

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3756013.310	400464.184	41.333

Operator	SB
Receiver Model	Trimble R12
Receiver S/N	1107
Antenna Height	2.000 m

Date (MM-DD-YYYY)	09-22-2023
RMSE Hz	0.008 m
RMSE Z	0.011 m
GPS Method	RTK

PHOTOS



Point ID	BE056
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Los Angeles
Quad	Acton

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3817666.389	388100.836	898.766

Operator	LJR
Receiver Model	Trimble R12
Receiver S/N	0455
Antenna Height	2.000 m

Date (MM-DD-YYYY)	10-12-2023
RMSE Hz	0.003 m
RMSE Z	0.006 m
GPS Method	RTK

PHOTOS



Point ID	BE057
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Los Angeles
Quad	Alpine Butte

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3836651.404	414398.392	762.092

Operator	LJR
Receiver Model	Trimble R12
Receiver S/N	0455
Antenna Height	2.000 m

Date (MM-DD-YYYY)	10-16-2023
RMSE Hz	0.006 m
RMSE Z	0.012 m
GPS Method	RTK

PHOTOS



Point ID	BE058
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Los Angeles
Quad	Oat Mountain

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3793109.051	352119.425	304.524

Operator	LJR
Receiver Model	Trimble R12
Receiver S/N	0455
Antenna Height	2.000 m

Date (MM-DD-YYYY)	10-11-2023
RMSE Hz	0.003 m
RMSE Z	0.006 m
GPS Method	RTK

PHOTOS



Point ID	BE059
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Los Angeles
Quad	Van Nuys

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3783265.008	361904.686	216.746

Operator	LJR
Receiver Model	Trimble R12
Receiver S/N	0455
Antenna Height	2.000 m

Date (MM-DD-YYYY)	10-10-2023
RMSE Hz	0.004 m
RMSE Z	0.010 m
GPS Method	RTK

PHOTOS



Point ID	BE060
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Los Angeles
Quad	Acton

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3811451.441	387627.496	756.329

Operator	LJR
Receiver Model	Trimble R12
Receiver S/N	0455
Antenna Height	2.000 m

Date (MM-DD-YYYY)	10-12-2023
RMSE Hz	0.003 m
RMSE Z	0.007 m
GPS Method	RTK

PHOTOS



Point ID	BE061
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Los Angeles
Quad	Hi Vista

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3843959.720	429122.031	929.224

Operator	LJR
Receiver Model	Trimble R12
Receiver S/N	0455
Antenna Height	2.000 m

Date (MM-DD-YYYY)	10-15-2023
RMSE Hz	0.006 m
RMSE Z	0.012 m
GPS Method	RTK

PHOTOS



Point ID	BE062
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Los Angeles
Quad	Malibu Beach

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3768400.399	347996.779	181.962

Operator	SB
Receiver Model	Trimble R12
Receiver S/N	1107
Antenna Height	2.000 m

Date (MM-DD-YYYY)	09-23-2023
RMSE Hz	0.007 m
RMSE Z	0.016 m
GPS Method	RTK

PHOTOS



Point ID	BE063
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Santa Barbara
Quad	Santa Rosa Island South

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
UTM 10N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3765363.267	773180.169	28.154

Operator	BKE
Receiver Model	Trimble R12
Receiver S/N	0455
Antenna Height	2.000 m

Date (MM-DD-YYYY)	10-24-2023
RMSE Hz	0.002 m
RMSE Z	0.004 m
GPS Method	Fast-Static

PHOTOS



Point ID	BE067
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Los Angeles
Quad	Santa Catalina North

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3701152.059	360741.098	6.483

Operator	BKE
Receiver Model	Trimble R12
Receiver S/N	0455
Antenna Height	2.000 m

Date (MM-DD-YYYY)	10-30-2023
RMSE Hz	0.001 m
RMSE Z	0.002 m
GPS Method	Fast-Static

PHOTOS



Point ID	BE068
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Santa Barbara
Quad	Santa Cruz Island D

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

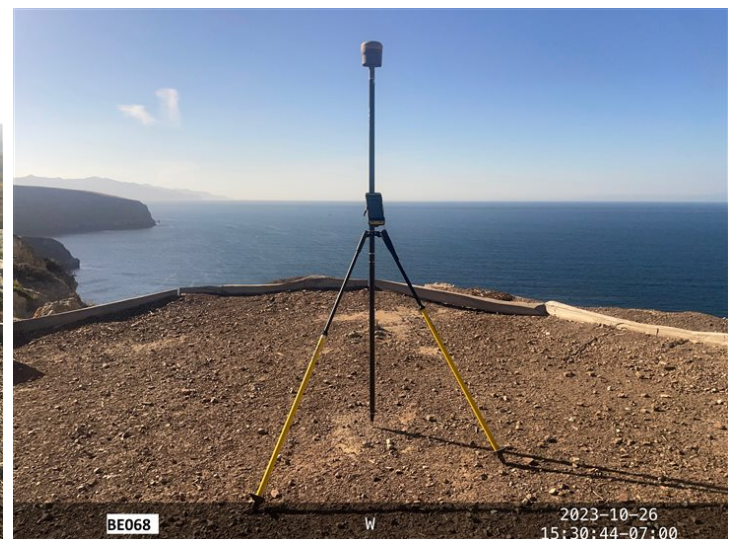
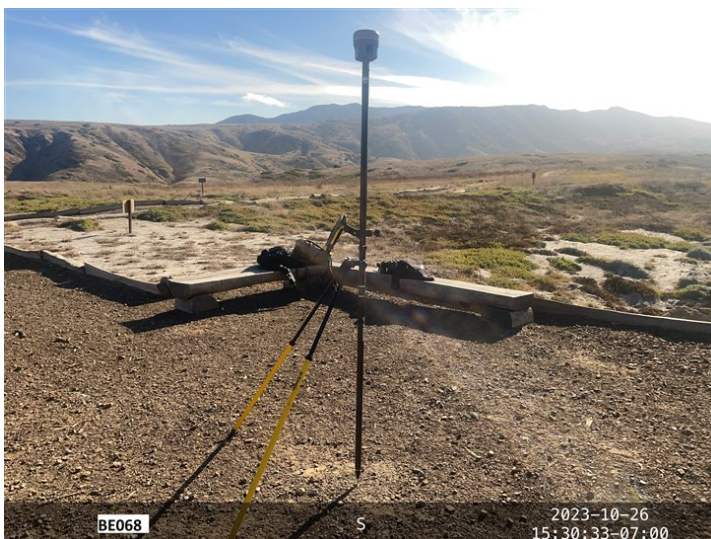
Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3771134.990	263273.420	88.942

Operator	BKE
Receiver Model	Trimble R12
Receiver S/N	0455
Antenna Height	2.000 m

Date (MM-DD-YYYY)	10-26-2023
RMSE Hz	0.001 m
RMSE Z	0.002 m
GPS Method	Fast-Static

PHOTOS



Point ID	BE071
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Ventura
Quad	Anacapa Island OE E

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3766280.959	281349.666	61.233

Operator	CR
Receiver Model	Trimble R12
Receiver S/N	0455
Antenna Height	2.000 m

Date (MM-DD-YYYY)	11-03-2023
RMSE Hz	0.003 m
RMSE Z	0.007 m
GPS Method	Fast-Static

PHOTOS



Point ID	BE072
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Santa Barbara
Quad	Santa Cruz Island C OE N

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3767458.090	252773.244	65.012

Operator	BKE
Receiver Model	Trimble R12
Receiver S/N	0455
Antenna Height	2.000 m

Date (MM-DD-YYYY)	10-27-2023
RMSE Hz	0.007 m
RMSE Z	0.012 m
GPS Method	Fast-Static

PHOTOS



Point ID	BE073
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Los Angeles
Quad	Santa Catalina West

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3700968.521	360534.741	10.380

Operator	BKE
Receiver Model	Trimble R12
Receiver S/N	0455
Antenna Height	2.000 m

Date (MM-DD-YYYY)	10-30-2023
RMSE Hz	0.001 m
RMSE Z	0.003 m
GPS Method	Fast-Static

PHOTOS



Point ID	BE666
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Ventura
Quad	Anacapa Island OE E

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

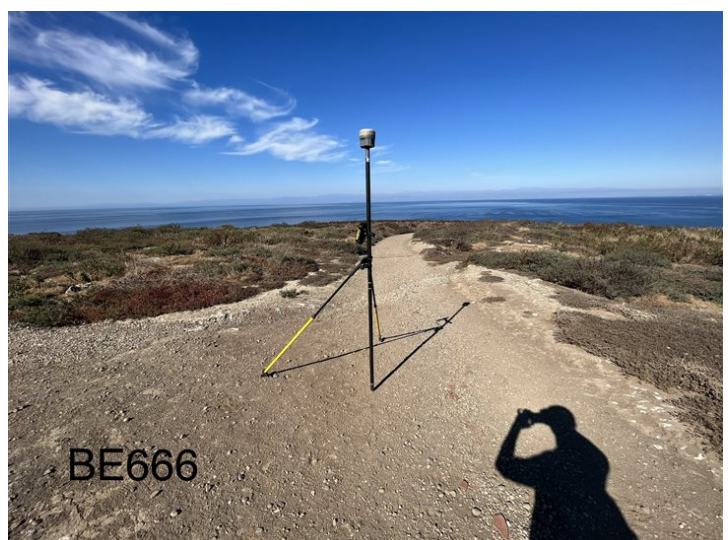
Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3766490.521	281758.181	42.457

Operator	CR
Receiver Model	Trimble R12
Receiver S/N	0455
Antenna Height	2.000 m

Date (MM-DD-YYYY)	11-03-2023
RMSE Hz	0.001 m
RMSE Z	0.004 m
GPS Method	Fast-Static

PHOTOS



URBAN AREA POINT LOG SHEETS

Point ID	UA001
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Los Angeles
Quad	Van Nuys

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3783067.984	369204.593	208.056

Operator	LJR
Receiver Model	Trimble R12
Receiver S/N	0455
Antenna Height	2.000 m

Date (MM-DD-YYYY)	10-11-2023
RMSE Hz	0.002 m
RMSE Z	0.006 m
GPS Method	RTK

PHOTOS



Point ID	UA002
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Los Angeles
Quad	Oat Mountain

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3802961.886	356804.637	416.522

Operator	LJR
Receiver Model	Trimble R12
Receiver S/N	0455
Antenna Height	2.000 m

Date (MM-DD-YYYY)	10-12-2023
RMSE Hz	0.003 m
RMSE Z	0.009 m
GPS Method	RTK

PHOTOS



Point ID	UA003
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Los Angeles
Quad	Long Beach

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3740304.796	387074.738	4.470

Operator	SB
Receiver Model	Trimble R12
Receiver S/N	1107
Antenna Height	2.000 m

Date (MM-DD-YYYY)	09-21-2023
RMSE Hz	0.004 m
RMSE Z	0.011 m
GPS Method	RTK

PHOTOS



Point ID	UA004
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Los Angeles
Quad	Los Angeles

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3770534.243	386654.014	93.384

Operator	LJR
Receiver Model	Trimble R12
Receiver S/N	0455
Antenna Height	2.000 m

Date (MM-DD-YYYY)	10-07-2023
RMSE Hz	0.003 m
RMSE Z	0.010 m
GPS Method	RTK

PHOTOS



Point ID	UA005
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Los Angeles
Quad	Los Alamitos

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3748099.420	401945.620	16.237

Operator	SB
Receiver Model	Trimble R12
Receiver S/N	1107
Antenna Height	2.000 m

Date (MM-DD-YYYY)	09-22-2023
RMSE Hz	0.004 m
RMSE Z	0.008 m
GPS Method	RTK

PHOTOS



Point ID	UA006
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Los Angeles
Quad	Mount Baldy

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3777801.236	434852.793	505.023

Operator	LJR
Receiver Model	Trimble R12
Receiver S/N	0455
Antenna Height	2.000 m

Date (MM-DD-YYYY)	10-05-2023
RMSE Hz	0.004 m
RMSE Z	0.007 m
GPS Method	RTK

PHOTOS



Point ID	UA007
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Los Angeles
Quad	Los Angeles

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3775477.560	391956.862	172.730

Operator	LJR
Receiver Model	Trimble R12
Receiver S/N	0455
Antenna Height	2.000 m

Date (MM-DD-YYYY)	10-07-2023
RMSE Hz	0.005 m
RMSE Z	0.015 m
GPS Method	RTK

PHOTOS



Point ID	UA008
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Los Angeles
Quad	Burbank

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3776892.478	377531.731	260.267

Operator	LJR
Receiver Model	Trimble R12
Receiver S/N	0455
Antenna Height	2.000 m

Date (MM-DD-YYYY)	10-07-2023
RMSE Hz	0.004 m
RMSE Z	0.009 m
GPS Method	RTK

PHOTOS



Point ID	UA009
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Los Angeles
Quad	Inglewood

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

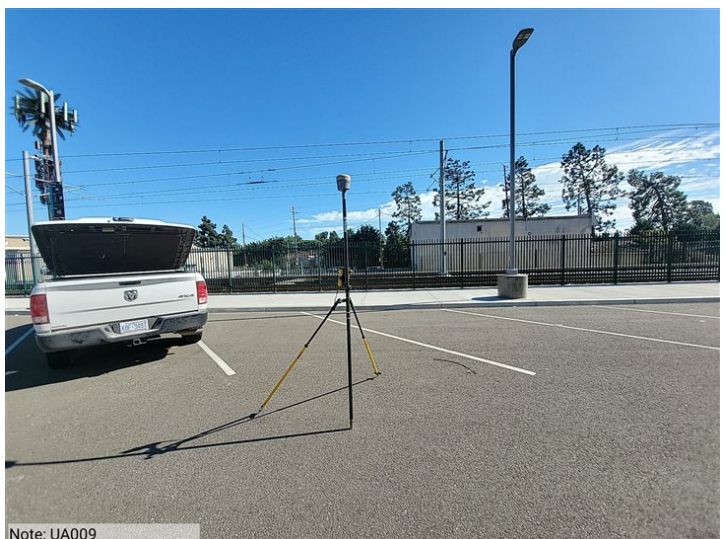
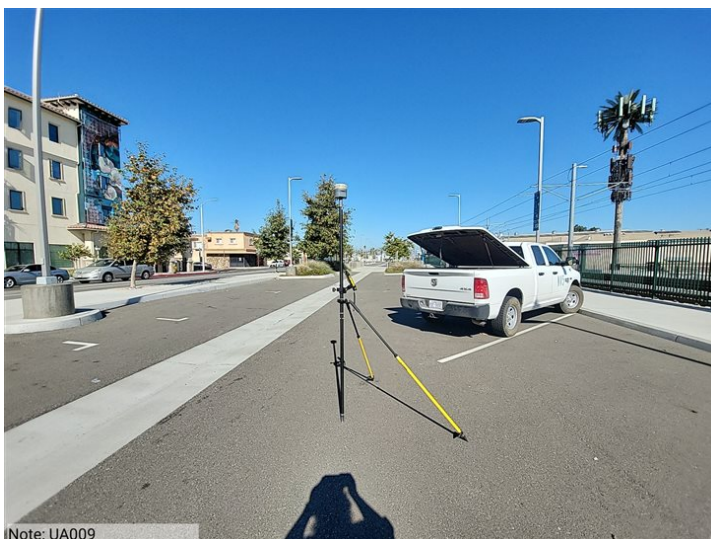
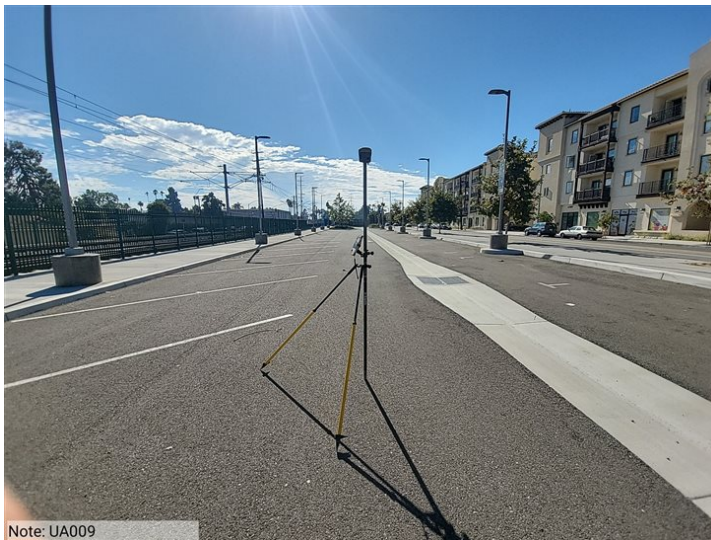
Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3760178.018	376473.484	53.647

Operator	LJR
Receiver Model	Trimble R12
Receiver S/N	0455
Antenna Height	2.000 m

Date (MM-DD-YYYY)	10-07-2023
RMSE Hz	0.005 m
RMSE Z	0.013 m
GPS Method	RTK

PHOTOS



Point ID	UA010
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Los Angeles
Quad	Canoga Park

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3785015.943	350798.722	247.452

Operator	LJR
Receiver Model	Trimble R12
Receiver S/N	0455
Antenna Height	2.000 m

Date (MM-DD-YYYY)	10-10-2023
RMSE Hz	0.004 m
RMSE Z	0.008 m
GPS Method	RTK

PHOTOS



Point ID	UA011
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Los Angeles
Quad	Oat Mountain

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

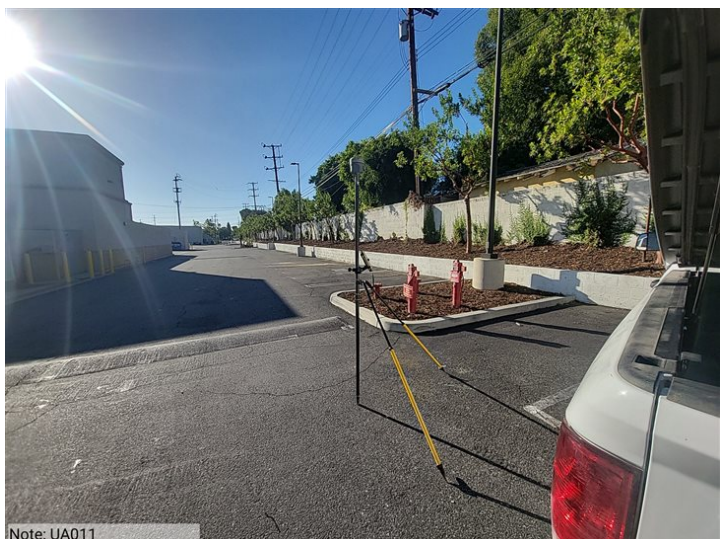
Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3792830.292	359706.958	319.168

Operator	LJR
Receiver Model	Trimble R12
Receiver S/N	0455
Antenna Height	2.000 m

Date (MM-DD-YYYY)	10-11-2023
RMSE Hz	0.005 m
RMSE Z	0.012 m
GPS Method	RTK

PHOTOS



Point ID	UA012
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Los Angeles
Quad	San Dimas

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3767452.917	419644.241	368.845

Operator	LJR
Receiver Model	Trimble R12
Receiver S/N	0455
Antenna Height	2.000 m

Date (MM-DD-YYYY)	10-06-2023
RMSE Hz	0.003 m
RMSE Z	0.014 m
GPS Method	RTK

PHOTOS



Point ID	UA013
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Los Angeles
Quad	Lancaster West

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3837603.779	390838.959	727.569

Operator	LJR
Receiver Model	Trimble R12
Receiver S/N	0455
Antenna Height	2.000 m

Date (MM-DD-YYYY)	10-17-2023
RMSE Hz	0.007 m
RMSE Z	0.013 m
GPS Method	RTK

PHOTOS



Point ID	UA014
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Los Angeles
Quad	Redondo Beach

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3744704.406	371532.434	23.828

Operator	SB
Receiver Model	Trimble R12
Receiver S/N	1107
Antenna Height	2.000 m

Date (MM-DD-YYYY)	09-21-2023
RMSE Hz	0.007 m
RMSE Z	0.011 m
GPS Method	RTK

PHOTOS



Point ID	UA015
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Los Angeles
Quad	South Gate

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3752026.243	393636.123	24.880

Operator	SB
Receiver Model	Trimble R12
Receiver S/N	1107
Antenna Height	2.000 m

Date (MM-DD-YYYY)	09-22-2023
RMSE Hz	0.006 m
RMSE Z	0.017 m
GPS Method	RTK

PHOTOS



Point ID	UA016
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Los Angeles
Quad	Redondo Beach OE S

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3735259.866	369739.234	79.855

Operator	SB
Receiver Model	Trimble R12
Receiver S/N	1107
Antenna Height	2.000 m

Date (MM-DD-YYYY)	09-21-2023
RMSE Hz	0.005 m
RMSE Z	0.011 m
GPS Method	RTK

PHOTOS



Point ID	UA017
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Los Angeles
Quad	Beverly Hills

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3768556.053	366060.829	82.291

Operator	SB
Receiver Model	Trimble R12
Receiver S/N	1107
Antenna Height	2.000 m

Date (MM-DD-YYYY)	09-23-2023
RMSE Hz	0.004 m
RMSE Z	0.009 m
GPS Method	RTK

PHOTOS



Point ID	UA018
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Los Angeles
Quad	El Monte

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3773744.422	406690.571	100.184

Operator	LJR
Receiver Model	Trimble R12
Receiver S/N	0455
Antenna Height	2.000 m

Date (MM-DD-YYYY)	10-06-2023
RMSE Hz	0.003 m
RMSE Z	0.009 m
GPS Method	RTK

PHOTOS



Point ID	UA019
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Los Angeles
Quad	Torrance

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3748065.079	383513.224	26.532

Operator	SB
Receiver Model	Trimble R12
Receiver S/N	1107
Antenna Height	2.000 m

Date (MM-DD-YYYY)	09-22-2023
RMSE Hz	0.006 m
RMSE Z	0.015 m
GPS Method	RTK

PHOTOS



Point ID	UA020
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Los Angeles
Quad	Ritter Ridge

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

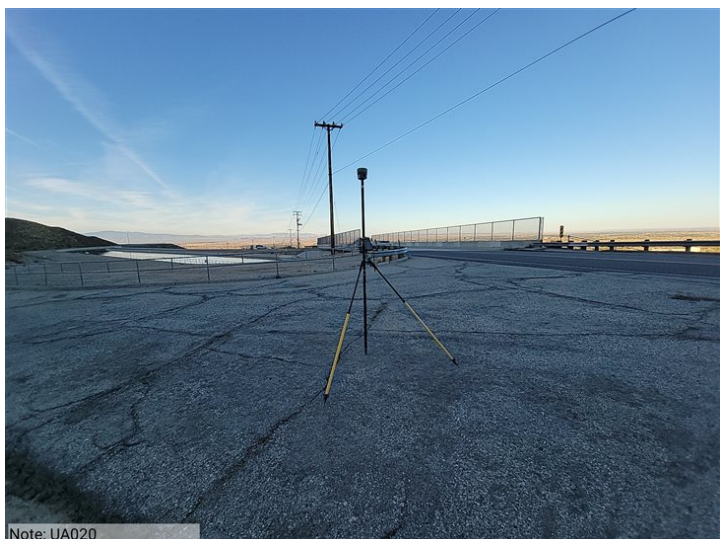
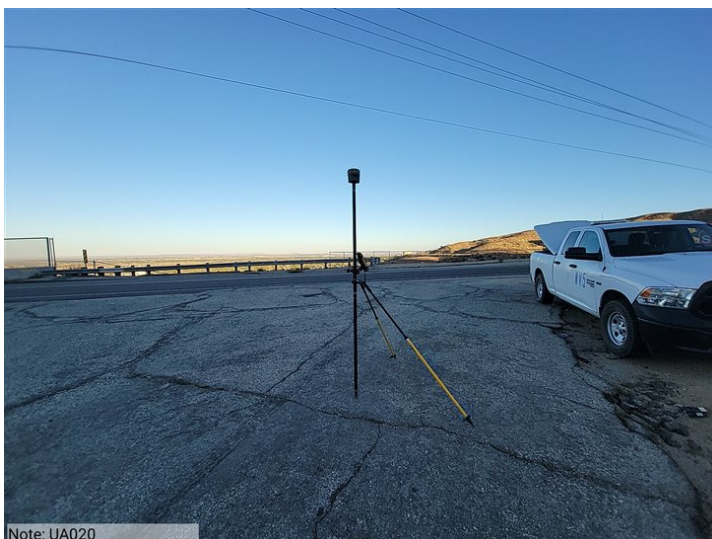
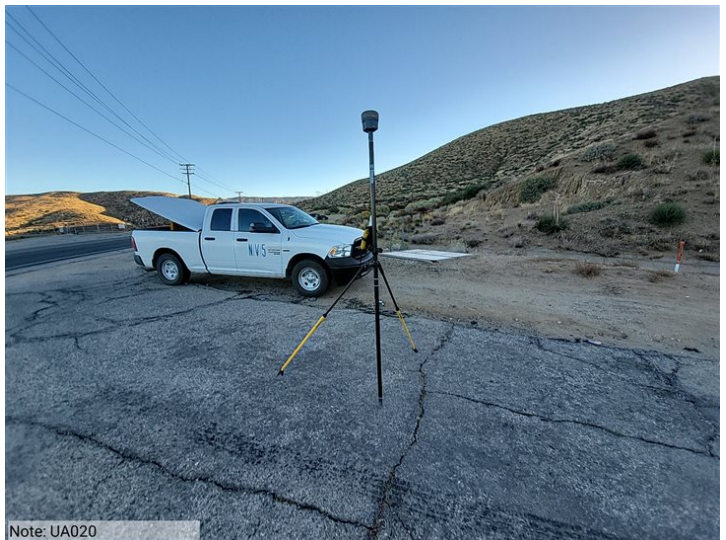
Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3831586.783	386908.189	905.400

Operator	LJR
Receiver Model	Trimble R12
Receiver S/N	0455
Antenna Height	2.000 m

Date (MM-DD-YYYY)	10-16-2023
RMSE Hz	0.008 m
RMSE Z	0.009 m
GPS Method	RTK

PHOTOS



Point ID	UA021
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Los Angeles
Quad	Venice

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3755078.841	368125.648	27.824

Operator	SB
Receiver Model	Trimble R12
Receiver S/N	1107
Antenna Height	2.000 m

Date (MM-DD-YYYY)	09-23-2023
RMSE Hz	0.005 m
RMSE Z	0.012 m
GPS Method	RTK

PHOTOS



Point ID	UA022
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Los Angeles
Quad	Baldwin Park

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

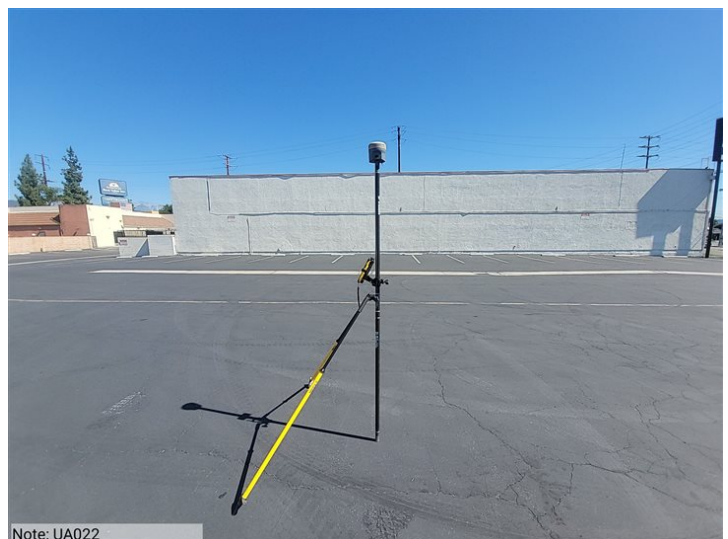
Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3775237.746	416208.449	158.855

Operator	LJR
Receiver Model	Trimble R12
Receiver S/N	0455
Antenna Height	2.000 m

Date (MM-DD-YYYY)	10-06-2023
RMSE Hz	0.005 m
RMSE Z	0.015 m
GPS Method	RTK

PHOTOS



Point ID	UA023
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Los Angeles
Quad	Hollywood

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3768468.148	374114.373	41.387

Operator	LJR
Receiver Model	Trimble R12
Receiver S/N	0455
Antenna Height	2.000 m

Date (MM-DD-YYYY)	10-07-2023
RMSE Hz	0.003 m
RMSE Z	0.007 m
GPS Method	RTK

PHOTOS



Point ID	UA024
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Los Angeles
Quad	El Monte

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3767866.070	402159.604	70.047

Operator	SB
Receiver Model	Trimble R12
Receiver S/N	1107
Antenna Height	2.000 m

Date (MM-DD-YYYY)	09-22-2023
RMSE Hz	0.008 m
RMSE Z	0.016 m
GPS Method	RTK

PHOTOS



Point ID	UA025
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Los Angeles
Quad	San Fernando

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3799109.790	366310.512	438.010

Operator	LJR
Receiver Model	Trimble R12
Receiver S/N	0455
Antenna Height	2.000 m

Date (MM-DD-YYYY)	10-12-2023
RMSE Hz	0.003 m
RMSE Z	0.009 m
GPS Method	RTK

PHOTOS



Point ID	UA026
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Los Angeles
Quad	San Pedro

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

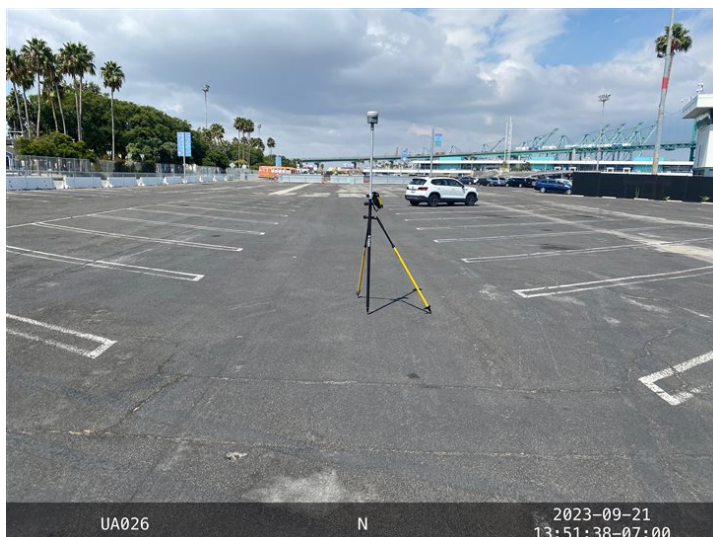
Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3734445.441	381548.520	5.476

Operator	SB
Receiver Model	Trimble R12
Receiver S/N	1107
Antenna Height	2.000 m

Date (MM-DD-YYYY)	09-21-2023
RMSE Hz	0.005 m
RMSE Z	0.010 m
GPS Method	RTK

PHOTOS



Point ID	UA027
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Los Angeles
Quad	San Dimas

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3764154.561	425435.608	251.238

Operator	SB
Receiver Model	Trimble R12
Receiver S/N	1107
Antenna Height	2.000 m

Date (MM-DD-YYYY)	09-22-2023
RMSE Hz	0.006 m
RMSE Z	0.010 m
GPS Method	RTK

PHOTOS



Point ID	UA028
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Los Angeles
Quad	Los Alamitos

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

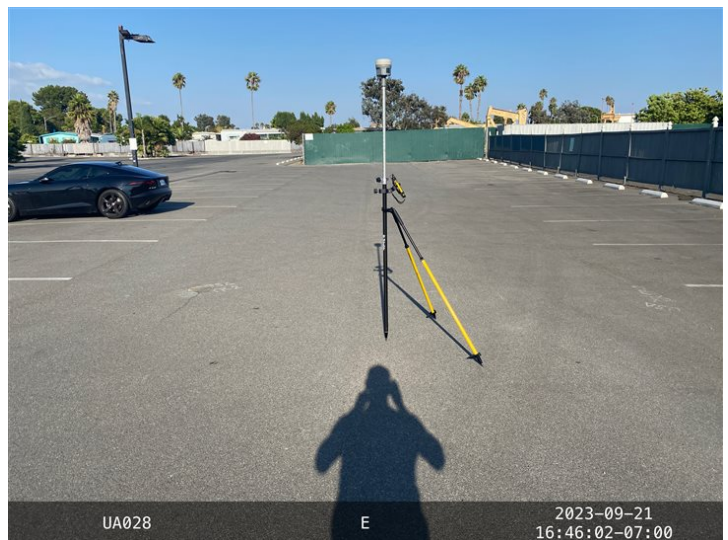
Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3736840.207	396639.943	3.028

Operator	SB
Receiver Model	Trimble R12
Receiver S/N	1107
Antenna Height	2.000 m

Date (MM-DD-YYYY)	09-21-2023
RMSE Hz	0.005 m
RMSE Z	0.008 m
GPS Method	RTK

PHOTOS



Point ID	UA029
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Los Angeles
Quad	Topanga

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3768193.356	354369.610	89.031

Operator	SB
Receiver Model	Trimble R12
Receiver S/N	1107
Antenna Height	2.000 m

Date (MM-DD-YYYY)	09-23-2023
RMSE Hz	0.007 m
RMSE Z	0.009 m
GPS Method	RTK

PHOTOS



Point ID	UA030
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Los Angeles
Quad	Ritter Ridge

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3827095.035	396286.653	819.487

Operator	LJR
Receiver Model	Trimble R12
Receiver S/N	0455
Antenna Height	2.000 m

Date (MM-DD-YYYY)	10-16-2023
RMSE Hz	0.006 m
RMSE Z	0.008 m
GPS Method	RTK

PHOTOS



Point ID	UA031
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Los Angeles
Quad	Burbank

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3787901.901	384097.780	434.483

Operator	LJR
Receiver Model	Trimble R12
Receiver S/N	0455
Antenna Height	2.000 m

Date (MM-DD-YYYY)	10-08-2023
RMSE Hz	0.004 m
RMSE Z	0.010 m
GPS Method	RTK

PHOTOS



Point ID	UA032
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Los Angeles
Quad	Thousand Oaks

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

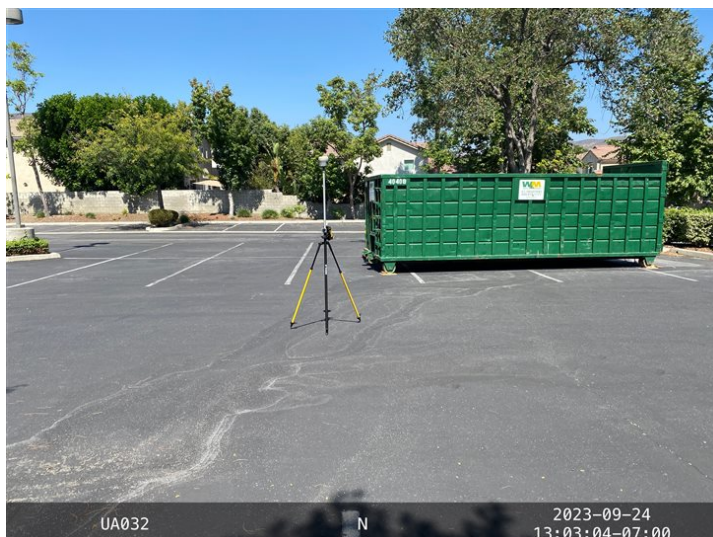
Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3780288.307	334675.184	297.779

Operator	SB
Receiver Model	Trimble R12
Receiver S/N	1107
Antenna Height	2.000 m

Date (MM-DD-YYYY)	09-24-2023
RMSE Hz	0.005 m
RMSE Z	0.011 m
GPS Method	RTK

PHOTOS



Point ID	UA033
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Los Angeles
Quad	Littlerock

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3818087.274	416119.338	960.614

Operator	LJR
Receiver Model	Trimble R12
Receiver S/N	0455
Antenna Height	2.000 m

Date (MM-DD-YYYY)	10-16-2023
RMSE Hz	0.006 m
RMSE Z	0.012 m
GPS Method	RTK

PHOTOS



Point ID	UA034
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Los Angeles
Quad	Burbank

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

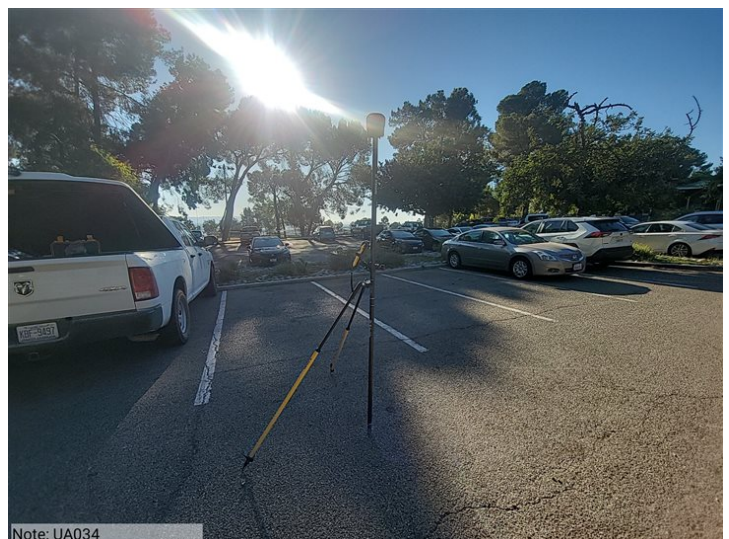
Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3786308.678	377538.411	283.654

Operator	LJR
Receiver Model	Trimble R12
Receiver S/N	0455
Antenna Height	2.000 m

Date (MM-DD-YYYY)	10-08-2023
RMSE Hz	0.005 m
RMSE Z	0.011 m
GPS Method	RTK

PHOTOS



Point ID	UA035
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Los Angeles
Quad	Whittier

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3755961.314	400535.745	42.292

Operator	SB
Receiver Model	Trimble R12
Receiver S/N	1107
Antenna Height	2.000 m

Date (MM-DD-YYYY)	09-22-2023
RMSE Hz	0.006 m
RMSE Z	0.013 m
GPS Method	RTK

PHOTOS



Point ID	UA036
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Los Angeles
Quad	Calabasas

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3778571.175	349671.142	316.374

Operator	SB
Receiver Model	Trimble R12
Receiver S/N	1107
Antenna Height	2.000 m

Date (MM-DD-YYYY)	09-24-2023
RMSE Hz	0.004 m
RMSE Z	0.010 m
GPS Method	RTK

PHOTOS



Point ID	UA037
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Los Angeles
Quad	Mint Canyon

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3809161.954	368416.926	458.102

Operator	LJR
Receiver Model	Trimble R12
Receiver S/N	0455
Antenna Height	2.000 m

Date (MM-DD-YYYY)	10-12-2023
RMSE Hz	0.003 m
RMSE Z	0.006 m
GPS Method	RTK

PHOTOS



Point ID	UA038
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Los Angeles
Quad	San Fernando

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3793046.416	371816.031	323.761

Operator	LJR
Receiver Model	Trimble R12
Receiver S/N	0455
Antenna Height	2.000 m

Date (MM-DD-YYYY)	10-08-2023
RMSE Hz	0.005 m
RMSE Z	0.018 m
GPS Method	RTK

PHOTOS



Point ID	UA039
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Los Angeles
Quad	Inglewood

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3762092.391	383084.936	51.632

Operator	LJR
Receiver Model	Trimble R12
Receiver S/N	0455
Antenna Height	2.000 m

Date (MM-DD-YYYY)	10-07-2023
RMSE Hz	0.003 m
RMSE Z	0.009 m
GPS Method	RTK

PHOTOS



Point ID	UA040
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Los Angeles
Quad	Los Angeles

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3763624.000	391930.561	47.763

Operator	SB
Receiver Model	Trimble R12
Receiver S/N	1107
Antenna Height	2.000 m

Date (MM-DD-YYYY)	09-23-2023
RMSE Hz	0.009 m
RMSE Z	0.012 m
GPS Method	RTK

PHOTOS



Point ID	UA041
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Los Angeles
Quad	Newhall

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3812773.133	357214.587	356.338

Operator	LJR
Receiver Model	Trimble R12
Receiver S/N	0455
Antenna Height	2.000 m

Date (MM-DD-YYYY)	10-13-2023
RMSE Hz	0.002 m
RMSE Z	0.005 m
GPS Method	RTK

PHOTOS



Point ID	UA042
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Los Angeles
Quad	Yorba Linda

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3762252.944	423021.641	233.085

Operator	SB
Receiver Model	Trimble R12
Receiver S/N	1107
Antenna Height	2.000 m

Date (MM-DD-YYYY)	09-22-2023
RMSE Hz	0.009 m
RMSE Z	0.017 m
GPS Method	RTK

PHOTOS



Point ID	UA043
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Los Angeles
Quad	Palmdale

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

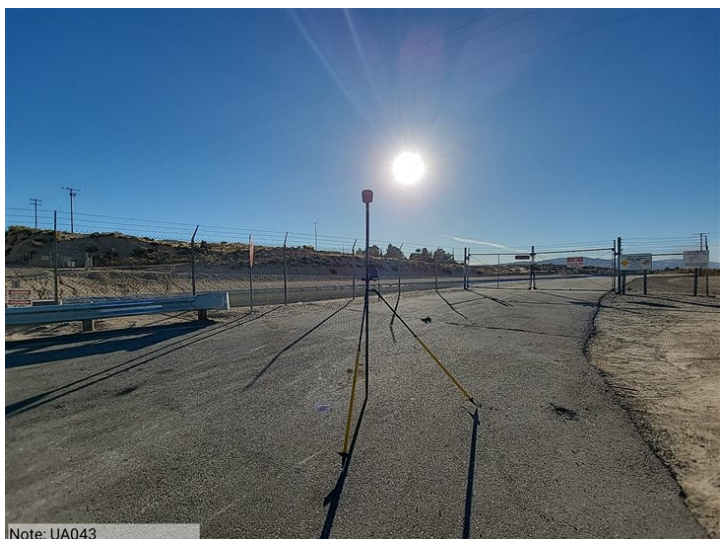
Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3821141.168	405676.236	899.187

Operator	LJR
Receiver Model	Trimble R12
Receiver S/N	0455
Antenna Height	2.000 m

Date (MM-DD-YYYY)	10-16-2023
RMSE Hz	0.009 m
RMSE Z	0.010 m
GPS Method	RTK

PHOTOS



Point ID	UA044
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Los Angeles
Quad	Pasadena

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3781816.165	386583.499	239.072

Operator	LJR
Receiver Model	Trimble R12
Receiver S/N	0455
Antenna Height	2.000 m

Date (MM-DD-YYYY)	10-10-2023
RMSE Hz	0.004 m
RMSE Z	0.010 m
GPS Method	RTK

PHOTOS



Point ID	UA045
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Los Angeles
Quad	Van Nuys

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3789291.522	366494.118	261.125

Operator	LJR
Receiver Model	Trimble R12
Receiver S/N	0455
Antenna Height	2.000 m

Date (MM-DD-YYYY)	10-11-2023
RMSE Hz	0.003 m
RMSE Z	0.006 m
GPS Method	RTK

PHOTOS



Point ID	UA046
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Los Angeles
Quad	Baldwin Park

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3764985.204	408425.628	118.802

Operator	SB
Receiver Model	Trimble R12
Receiver S/N	1107
Antenna Height	2.000 m

Date (MM-DD-YYYY)	09-22-2023
RMSE Hz	0.008 m
RMSE Z	0.010 m
GPS Method	RTK

PHOTOS



Point ID	UA047
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Los Angeles
Quad	Lancaster East

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3836291.318	401298.593	744.228

Operator	LJR
Receiver Model	Trimble R12
Receiver S/N	0455
Antenna Height	2.000 m

Date (MM-DD-YYYY)	10-15-2023
RMSE Hz	0.006 m
RMSE Z	0.010 m
GPS Method	RTK

PHOTOS



Point ID	UA048
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Los Angeles
Quad	Long Beach

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

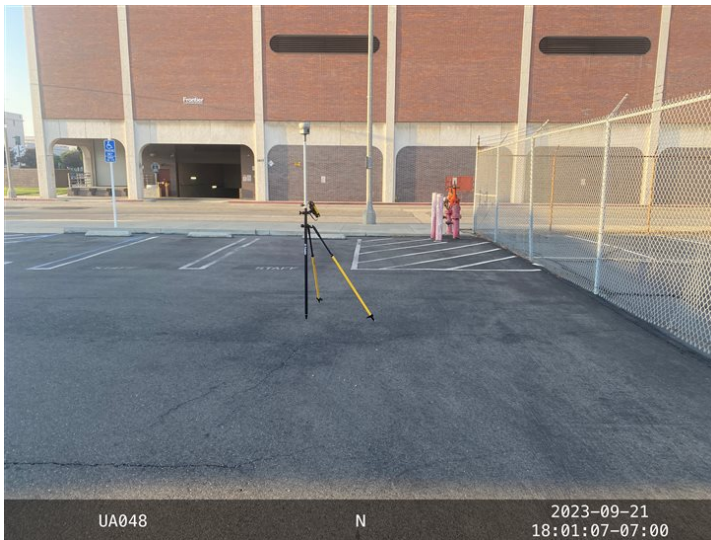
Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3743857.440	394978.440	11.881

Operator	SB
Receiver Model	Trimble R12
Receiver S/N	1107
Antenna Height	2.000 m

Date (MM-DD-YYYY)	09-21-2023
RMSE Hz	0.004 m
RMSE Z	0.009 m
GPS Method	RTK

PHOTOS



Point ID	UA049
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Los Angeles
Quad	Glendora

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3776456.482	426129.187	335.297

Operator	LJR
Receiver Model	Trimble R12
Receiver S/N	0455
Antenna Height	2.000 m

Date (MM-DD-YYYY)	10-06-2023
RMSE Hz	0.003 m
RMSE Z	0.008 m
GPS Method	RTK

PHOTOS



Point ID	UA050
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Los Angeles
Quad	Pasadena

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3785348.598	395614.887	537.823

Operator	LJR
Receiver Model	Trimble R12
Receiver S/N	0455
Antenna Height	2.000 m

Date (MM-DD-YYYY)	10-08-2023
RMSE Hz	0.004 m
RMSE Z	0.011 m
GPS Method	RTK

PHOTOS



Point ID	UA051
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Los Angeles
Quad	Whittier

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3755503.601	406436.438	57.761

Operator	SB
Receiver Model	Trimble R12
Receiver S/N	1107
Antenna Height	2.000 m

Date (MM-DD-YYYY)	09-22-2023
RMSE Hz	0.004 m
RMSE Z	0.009 m
GPS Method	RTK

PHOTOS



Point ID	UA052
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Los Angeles
Quad	Mount Wilson

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3781625.932	402191.914	337.129

Operator	LJR
Receiver Model	Trimble R12
Receiver S/N	0455
Antenna Height	2.000 m

Date (MM-DD-YYYY)	10-08-2023
RMSE Hz	0.006 m
RMSE Z	0.019 m
GPS Method	RTK

PHOTOS



Point ID	UA053
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Los Angeles
Quad	El Monte

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3768629.752	397035.979	135.062

Operator	LJR
Receiver Model	Trimble R12
Receiver S/N	0455
Antenna Height	2.000 m

Date (MM-DD-YYYY)	10-07-2023
RMSE Hz	0.006 m
RMSE Z	0.017 m
GPS Method	RTK

PHOTOS



Point ID	UA054
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Los Angeles
Quad	Canoga Park

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3778339.125	357121.559	423.250

Operator	LJR
Receiver Model	Trimble R12
Receiver S/N	0455
Antenna Height	2.000 m

Date (MM-DD-YYYY)	10-11-2023
RMSE Hz	0.003 m
RMSE Z	0.007 m
GPS Method	RTK

PHOTOS



Point ID	UA056
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Los Angeles
Quad	Santa Catalina East

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

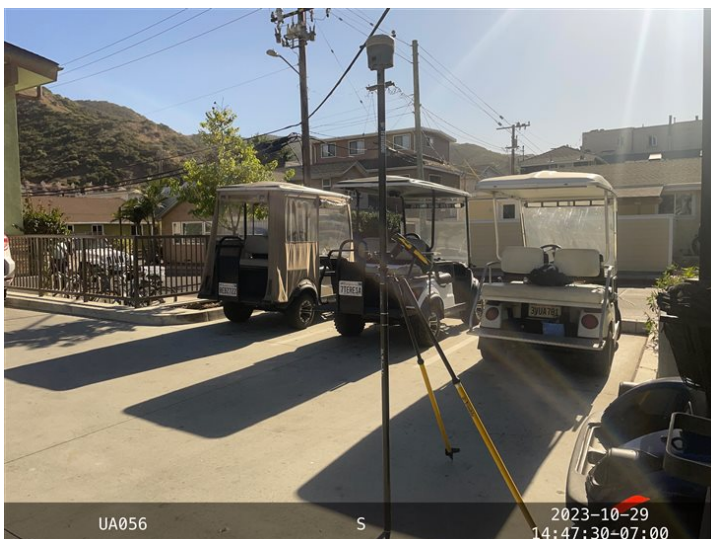
Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3690007.498	376474.889	5.765

Operator	BKE
Receiver Model	Trimble R12
Receiver S/N	0455
Antenna Height	2.000 m

Date (MM-DD-YYYY)	10-29-2023
RMSE Hz	0.009 m
RMSE Z	0.022 m
GPS Method	Fast-Static

PHOTOS



Point ID	UA100
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Los Angeles
Quad	Hollywood

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

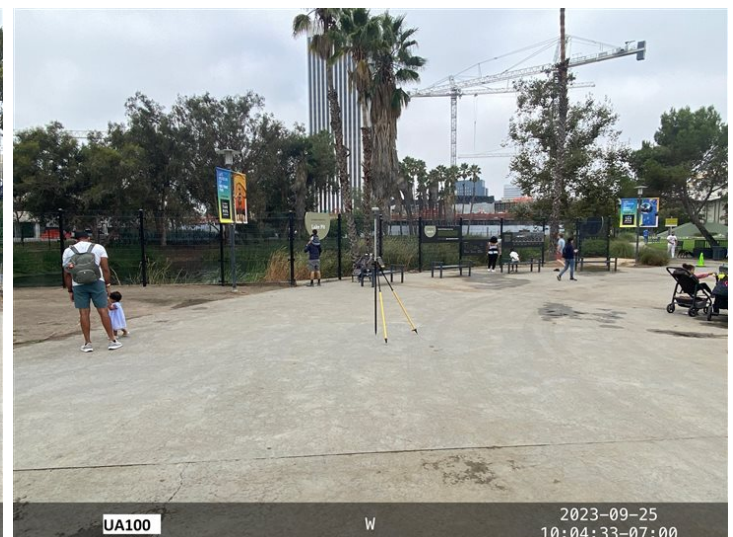
Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3769978.740	374918.624	55.831

Operator	SB
Receiver Model	Trimble R12
Receiver S/N	1107
Antenna Height	2.000 m

Date (MM-DD-YYYY)	09-25-2023
RMSE Hz	0.004 m
RMSE Z	0.009 m
GPS Method	RTK

PHOTOS



Point ID	UA101
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Los Angeles
Quad	Inglewood

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3761744.807	374357.838	69.961

Operator	SB
Receiver Model	Trimble R12
Receiver S/N	1107
Antenna Height	2.000 m

Date (MM-DD-YYYY)	09-25-2023
RMSE Hz	0.006 m
RMSE Z	0.010 m
GPS Method	RTK

PHOTOS



TALL WEEDS POINT LOG SHEETS

Point ID	TG001
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Los Angeles
Quad	Del Sur

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3839398.443	377638.150	785.564

Operator	LJR
Receiver Model	Trimble R12
Receiver S/N	0455
Antenna Height	2.000 m

Date (MM-DD-YYYY)	10-14-2023
RMSE Hz	0.003 m
RMSE Z	0.007 m
GPS Method	RTK

PHOTOS



Point ID	TG002
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Los Angeles
Quad	Mint Canyon

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3809147.680	368418.482	458.365

Operator	LJR
Receiver Model	Trimble R12
Receiver S/N	0455
Antenna Height	2.000 m

Date (MM-DD-YYYY)	10-12-2023
RMSE Hz	0.002 m
RMSE Z	0.004 m
GPS Method	RTK

PHOTOS



Point ID	TG003
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Los Angeles
Quad	Oat Mountain

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3802958.984	356800.569	416.575

Operator	LJR
Receiver Model	Trimble R12
Receiver S/N	0455
Antenna Height	2.000 m

Date (MM-DD-YYYY)	10-12-2023
RMSE Hz	0.002 m
RMSE Z	0.004 m
GPS Method	RTK

PHOTOS



Point ID	TG004
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Los Angeles
Quad	San Dimas

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3767444.016	419620.946	369.972

Operator	LJR
Receiver Model	Trimble R12
Receiver S/N	0455
Antenna Height	2.000 m

Date (MM-DD-YYYY)	10-06-2023
RMSE Hz	0.003 m
RMSE Z	0.013 m
GPS Method	RTK

PHOTOS



Point ID	TG005
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Los Angeles
Quad	Littlerock

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3824152.750	413705.150	837.370

Operator	LJR
Receiver Model	Trimble R12
Receiver S/N	0455
Antenna Height	2.000 m

Date (MM-DD-YYYY)	10-16-2023
RMSE Hz	0.006 m
RMSE Z	0.011 m
GPS Method	RTK

PHOTOS



Point ID	TG006
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Los Angeles
Quad	Neenach School

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3851594.831	354528.763	891.674

Operator	LJR
Receiver Model	Trimble R12
Receiver S/N	0455
Antenna Height	2.000 m

Date (MM-DD-YYYY)	10-14-2023
RMSE Hz	0.003 m
RMSE Z	0.007 m
GPS Method	RTK

PHOTOS



Point ID	TG007
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Los Angeles
Quad	Alpine Butte

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3837503.220	411127.141	754.863

Operator	LJR
Receiver Model	Trimble R12
Receiver S/N	0455
Antenna Height	2.000 m

Date (MM-DD-YYYY)	10-16-2023
RMSE Hz	0.006 m
RMSE Z	0.014 m
GPS Method	RTK

PHOTOS



Point ID	TG008
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Los Angeles
Quad	Rosamond

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3852174.401	394434.148	702.588

Operator	LJR
Receiver Model	Trimble R12
Receiver S/N	0455
Antenna Height	2.000 m

Date (MM-DD-YYYY)	10-15-2023
RMSE Hz	0.003 m
RMSE Z	0.010 m
GPS Method	RTK

PHOTOS



Point ID	TG009
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Los Angeles
Quad	El Monte

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3776079.693	400192.403	156.256

Operator	LJR
Receiver Model	Trimble R12
Receiver S/N	0455
Antenna Height	2.000 m

Date (MM-DD-YYYY)	10-08-2023
RMSE Hz	0.004 m
RMSE Z	0.011 m
GPS Method	RTK

PHOTOS



Point ID	TG010
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Los Angeles
Quad	Sunland

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3794470.974	381147.847	442.289

Operator	LJR
Receiver Model	Trimble R12
Receiver S/N	0455
Antenna Height	2.000 m

Date (MM-DD-YYYY)	10-08-2023
RMSE Hz	0.003 m
RMSE Z	0.009 m
GPS Method	RTK

PHOTOS



Point ID	TG011
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Ventura
Quad	Anacapa Island OE E

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3766304.264	281357.322	60.719

Operator	CR
Receiver Model	Trimble R12
Receiver S/N	0455
Antenna Height	2.000 m

Date (MM-DD-YYYY)	11-03-2023
RMSE Hz	0.001 m
RMSE Z	0.003 m
GPS Method	Fast-Static

PHOTOS



Point ID	TG012
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Los Angeles
Quad	Lebec

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3849210.504	339015.347	1014.560

Operator	LJR
Receiver Model	Trimble R12
Receiver S/N	0455
Antenna Height	2.000 m

Date (MM-DD-YYYY)	10-13-2023
RMSE Hz	0.004 m
RMSE Z	0.008 m
GPS Method	RTK

PHOTOS



Point ID	TG013
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Los Angeles
Quad	El Monte

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3768631.838	397053.669	134.964

Operator	LJR
Receiver Model	Trimble R12
Receiver S/N	0455
Antenna Height	2.000 m

Date (MM-DD-YYYY)	10-07-2023
RMSE Hz	0.004 m
RMSE Z	0.009 m
GPS Method	RTK

PHOTOS



Point ID	TG014
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Los Angeles
Quad	Little Buttes

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3852222.791	378662.141	758.860

Operator	LJR
Receiver Model	Trimble R12
Receiver S/N	0455
Antenna Height	2.000 m

Date (MM-DD-YYYY)	10-14-2023
RMSE Hz	0.004 m
RMSE Z	0.008 m
GPS Method	RTK

PHOTOS



Point ID	TG015
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Los Angeles
Quad	San Fernando

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3793043.524	371828.088	323.481

Operator	LJR
Receiver Model	Trimble R12
Receiver S/N	0455
Antenna Height	2.000 m

Date (MM-DD-YYYY)	10-08-2023
RMSE Hz	0.004 m
RMSE Z	0.011 m
GPS Method	RTK

PHOTOS



Point ID	TG016
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Los Angeles
Quad	Whitaker Peak

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3820437.335	350209.918	481.387

Operator	LJR
Receiver Model	Trimble R12
Receiver S/N	0455
Antenna Height	2.000 m

Date (MM-DD-YYYY)	10-14-2023
RMSE Hz	0.002 m
RMSE Z	0.005 m
GPS Method	RTK

PHOTOS



Point ID	TG017
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Los Angeles
Quad	Chilao Flat

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3803145.123	398272.614	1192.595

Operator	LJR
Receiver Model	Trimble R12
Receiver S/N	0455
Antenna Height	2.000 m

Date (MM-DD-YYYY)	10-09-2023
RMSE Hz	0.004 m
RMSE Z	0.008 m
GPS Method	Fast-Static

PHOTOS



Point ID	TG018
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Los Angeles
Quad	Val Verde

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3809068.524	346537.600	277.619

Operator	LJR
Receiver Model	Trimble R12
Receiver S/N	0455
Antenna Height	2.000 m

Date (MM-DD-YYYY)	10-13-2023
RMSE Hz	0.003 m
RMSE Z	0.007 m
GPS Method	RTK

PHOTOS



Point ID	TG020
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Los Angeles
Quad	Black Mountain

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

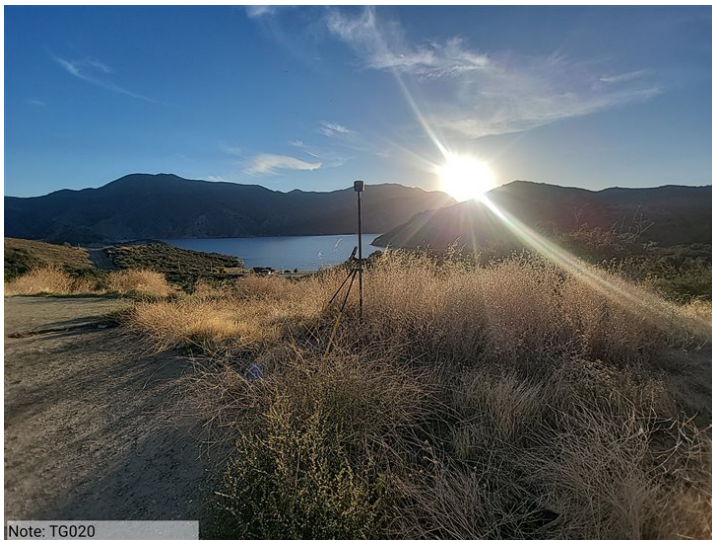
Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3837196.010	338495.099	834.337

Operator	LJR
Receiver Model	Trimble R12
Receiver S/N	0455
Antenna Height	2.000 m

Date (MM-DD-YYYY)	10-13-2023
RMSE Hz	0.003 m
RMSE Z	0.007 m
GPS Method	RTK

PHOTOS



Point ID	TG021
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Los Angeles
Quad	Canoga Park

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3778336.288	357134.357	424.405

Operator	LJR
Receiver Model	Trimble R12
Receiver S/N	0455
Antenna Height	2.000 m

Date (MM-DD-YYYY)	10-11-2023
RMSE Hz	0.003 m
RMSE Z	0.006 m
GPS Method	RTK

PHOTOS



Point ID	TG022
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Los Angeles
Quad	Green Valley

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

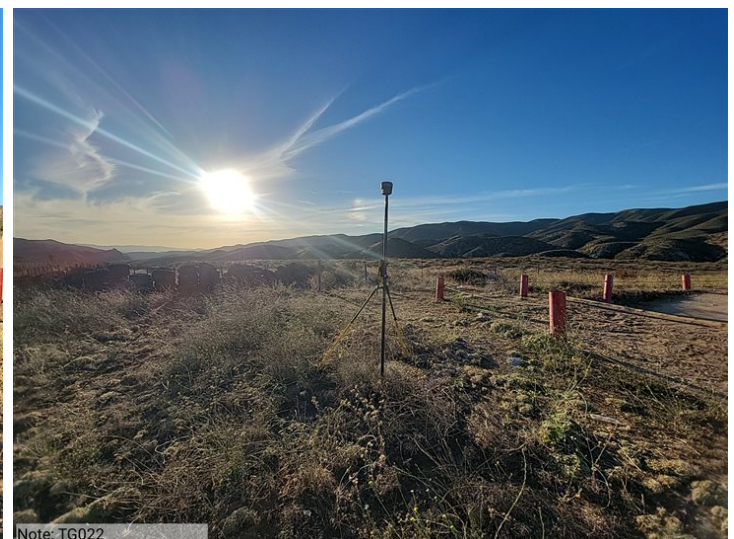
Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3821331.028	373009.546	773.313

Operator	LJR
Receiver Model	Trimble R12
Receiver S/N	0455
Antenna Height	2.000 m

Date (MM-DD-YYYY)	10-12-2023
RMSE Hz	0.002 m
RMSE Z	0.005 m
GPS Method	RTK

PHOTOS



Point ID	TG023
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Los Angeles
Quad	Fairmont Butte

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3850651.013	365800.356	830.346

Operator	LJR
Receiver Model	Trimble R12
Receiver S/N	0455
Antenna Height	2.000 m

Date (MM-DD-YYYY)	10-14-2023
RMSE Hz	0.004 m
RMSE Z	0.014 m
GPS Method	RTK

PHOTOS



Point ID	TG025
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Los Angeles
Quad	Baldwin Park

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3763600.659	408192.008	157.433

Operator	SB
Receiver Model	Trimble R12
Receiver S/N	1107
Antenna Height	2.000 m

Date (MM-DD-YYYY)	09-22-2023
RMSE Hz	0.009 m
RMSE Z	0.011 m
GPS Method	RTK

PHOTOS



Point ID	TG028
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Los Angeles
Quad	Canoga Park

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3785032.229	350797.797	247.452

Operator	LJR
Receiver Model	Trimble R12
Receiver S/N	0455
Antenna Height	2.000 m

Date (MM-DD-YYYY)	10-10-2023
RMSE Hz	0.004 m
RMSE Z	0.010 m
GPS Method	RTK

PHOTOS



Point ID	TG029
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Los Angeles
Quad	Rosamond Lake

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3847233.208	399333.451	703.473

Operator	LJR
Receiver Model	Trimble R12
Receiver S/N	0455
Antenna Height	2.000 m

Date (MM-DD-YYYY)	10-15-2023
RMSE Hz	0.005 m
RMSE Z	0.011 m
GPS Method	RTK

PHOTOS



Point ID	TG030
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Los Angeles
Quad	Calabasas

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3778721.089	349731.541	318.798

Operator	SB
Receiver Model	Trimble R12
Receiver S/N	1107
Antenna Height	2.000 m

Date (MM-DD-YYYY)	09-24-2023
RMSE Hz	0.004 m
RMSE Z	0.010 m
GPS Method	RTK

PHOTOS



Point ID	TG031
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Los Angeles
Quad	Agua Dulce

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3814051.554	377967.736	646.347

Operator	LJR
Receiver Model	Trimble R12
Receiver S/N	0455
Antenna Height	2.000 m

Date (MM-DD-YYYY)	10-12-2023
RMSE Hz	0.003 m
RMSE Z	0.006 m
GPS Method	RTK

PHOTOS



Point ID	TG032
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Los Angeles
Quad	Burnt Peak

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3842822.659	355646.081	1172.998

Operator	LJR
Receiver Model	Trimble R12
Receiver S/N	0455
Antenna Height	2.000 m

Date (MM-DD-YYYY)	10-13-2023
RMSE Hz	0.004 m
RMSE Z	0.010 m
GPS Method	RTK

PHOTOS



Point ID	TG033
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Los Angeles
Quad	Yorba Linda

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3762190.447	423123.269	265.378

Operator	SB
Receiver Model	Trimble R12
Receiver S/N	1107
Antenna Height	2.000 m

Date (MM-DD-YYYY)	09-22-2023
RMSE Hz	0.007 m
RMSE Z	0.011 m
GPS Method	RTK

PHOTOS



Point ID	TG034
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Los Angeles
Quad	Beverly Hills

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3773310.948	369760.562	145.898

Operator	LJR
Receiver Model	Trimble R12
Receiver S/N	0455
Antenna Height	2.000 m

Date (MM-DD-YYYY)	10-11-2023
RMSE Hz	0.005 m
RMSE Z	0.013 m
GPS Method	RTK

PHOTOS



Point ID	TG035
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Los Angeles
Quad	Malibu Beach

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3774396.671	341821.044	172.912

Operator	LJR
Receiver Model	Trimble R12
Receiver S/N	0455
Antenna Height	2.000 m

Date (MM-DD-YYYY)	10-10-2023
RMSE Hz	0.004 m
RMSE Z	0.010 m
GPS Method	RTK

PHOTOS



Point ID	TG036
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Los Angeles
Quad	Ritter Ridge

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3827091.566	396272.160	819.879

Operator	LJR
Receiver Model	Trimble R12
Receiver S/N	0455
Antenna Height	2.000 m

Date (MM-DD-YYYY)	10-16-2023
RMSE Hz	0.005 m
RMSE Z	0.008 m
GPS Method	RTK

PHOTOS



Point ID	TG037
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Los Angeles
Quad	Inglewood

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3760027.813	376201.040	54.583

Operator	LJR
Receiver Model	Trimble R12
Receiver S/N	0455
Antenna Height	2.000 m

Date (MM-DD-YYYY)	10-07-2023
RMSE Hz	0.004 m
RMSE Z	0.009 m
GPS Method	RTK

PHOTOS



Point ID	TG038
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Los Angeles
Quad	El Monte

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3767600.369	402160.780	70.069

Operator	SB
Receiver Model	Trimble R12
Receiver S/N	1107
Antenna Height	2.000 m

Date (MM-DD-YYYY)	09-22-2023
RMSE Hz	0.010 m
RMSE Z	0.016 m
GPS Method	RTK

PHOTOS



Point ID	TG039
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Ventura
Quad	Anacapa Island OE E

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3766404.208	281814.696	49.838

Operator	CR
Receiver Model	Trimble R12
Receiver S/N	0455
Antenna Height	2.000 m

Date (MM-DD-YYYY)	11-03-2023
RMSE Hz	0.001 m
RMSE Z	0.003 m
GPS Method	Fast-Static

PHOTOS



Point ID	TG041
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Santa Barbara
Quad	Santa Rosa Island North

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

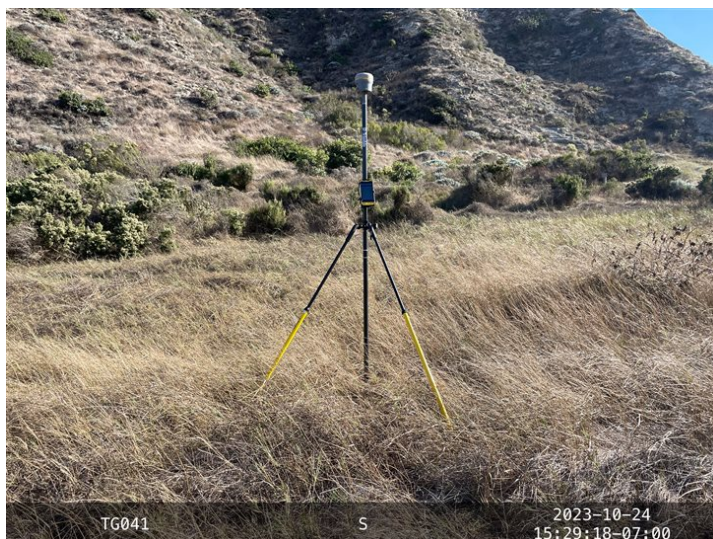
Coordinate System
UTM 10N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3766311.744	771812.999	28.260

Operator	BKE
Receiver Model	Trimble R12
Receiver S/N	0455
Antenna Height	2.000 m

Date (MM-DD-YYYY)	10-24-2023
RMSE Hz	0.001 m
RMSE Z	0.003 m
GPS Method	Fast-Static

PHOTOS



Point ID	TG042
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Santa Barbara
Quad	Santa Rosa Island South

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
UTM 10N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3765956.971	771166.149	119.953

Operator	BKE
Receiver Model	Trimble R12
Receiver S/N	0455
Antenna Height	2.000 m

Date (MM-DD-YYYY)	10-24-2023
RMSE Hz	0.001 m
RMSE Z	0.002 m
GPS Method	Fast-Static

PHOTOS



Point ID	TG043
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Santa Barbara
Quad	Santa Cruz Island D

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

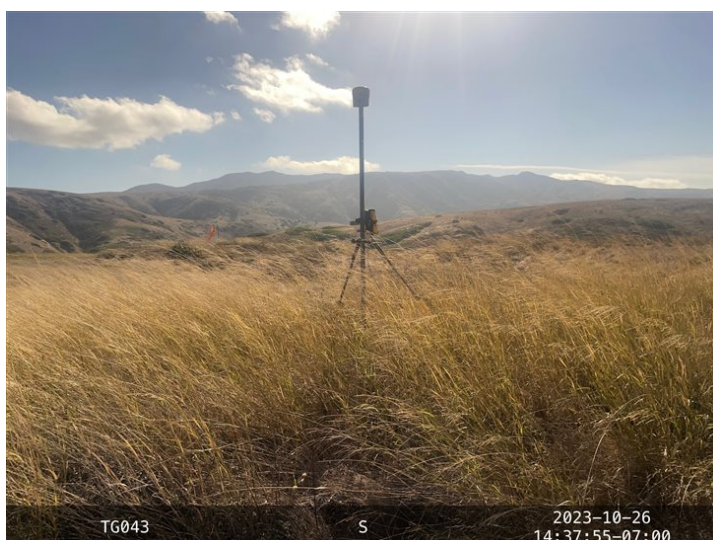
Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3770945.747	263293.663	82.603

Operator	BKE
Receiver Model	Trimble R12
Receiver S/N	0455
Antenna Height	2.000 m

Date (MM-DD-YYYY)	10-26-2023
RMSE Hz	0.001 m
RMSE Z	0.002 m
GPS Method	Fast-Static

PHOTOS



Point ID	TG046
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Los Angeles
Quad	Santa Catalina East

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3689606.962	376206.762	20.060

Operator	BKE
Receiver Model	Trimble R12
Receiver S/N	0455
Antenna Height	2.000 m

Date (MM-DD-YYYY)	10-29-2023
RMSE Hz	0.007 m
RMSE Z	0.014 m
GPS Method	Fast-Static

PHOTOS



Point ID	TG050
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Los Angeles
Quad	Santa Catalina North

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3701030.503	360719.315	15.803

Operator	BKE
Receiver Model	Trimble R12
Receiver S/N	0455
Antenna Height	2.000 m

Date (MM-DD-YYYY)	10-30-2023
RMSE Hz	0.001 m
RMSE Z	0.002 m
GPS Method	Fast-Static

PHOTOS



Point ID	TG051
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Los Angeles
Quad	Whitaker Peak

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3826757.375	345255.080	778.994

Operator	BKE
Receiver Model	Trimble R12
Receiver S/N	0455
Antenna Height	2.000 m

Date (MM-DD-YYYY)	10-31-2023
RMSE Hz	0.007 m
RMSE Z	0.012 m
GPS Method	RTK

PHOTOS



Point ID	TG052
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Los Angeles
Quad	San Fernando

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3793031.107	371824.016	322.917

Operator	LJR
Receiver Model	Trimble R12
Receiver S/N	0455
Antenna Height	2.000 m

Date (MM-DD-YYYY)	10-08-2023
RMSE Hz	0.004 m
RMSE Z	0.010 m
GPS Method	RTK

PHOTOS



Point ID	TG053
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Los Angeles
Quad	Pasadena

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3781853.043	386586.120	239.942

Operator	LJR
Receiver Model	Trimble R12
Receiver S/N	0455
Antenna Height	2.000 m

Date (MM-DD-YYYY)	10-10-2023
RMSE Hz	0.006 m
RMSE Z	0.017 m
GPS Method	RTK

PHOTOS



Point ID	TG054
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Los Angeles
Quad	Pacifico Mountain

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3809015.491	400320.493	1276.840

Operator	LJR
Receiver Model	Trimble R12
Receiver S/N	0455
Antenna Height	2.000 m

Date (MM-DD-YYYY)	10-09-2023
RMSE Hz	0.006 m
RMSE Z	0.011 m
GPS Method	RTK

PHOTOS



FOREST POINT LOG SHEETS

Point ID	FR001
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Los Angeles
Quad	Lancaster West

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3837603.999	390867.522	728.157

Operator	LJR
Receiver Model	Trimble R12
Receiver S/N	0455
Antenna Height	2.000 m

Date (MM-DD-YYYY)	10-17-2023
RMSE Hz	0.008 m
RMSE Z	0.016 m
GPS Method	RTK

PHOTOS



Point ID	FR002
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Los Angeles
Quad	Burnt Peak

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3842813.680	355700.808	1174.793

Operator	LJR
Receiver Model	Trimble R12
Receiver S/N	0455
Antenna Height	2.000 m

Date (MM-DD-YYYY)	10-13-2023
RMSE Hz	0.009 m
RMSE Z	0.032 m
GPS Method	RTK

PHOTOS



Point ID	FR003
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Los Angeles
Quad	Pasadena

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

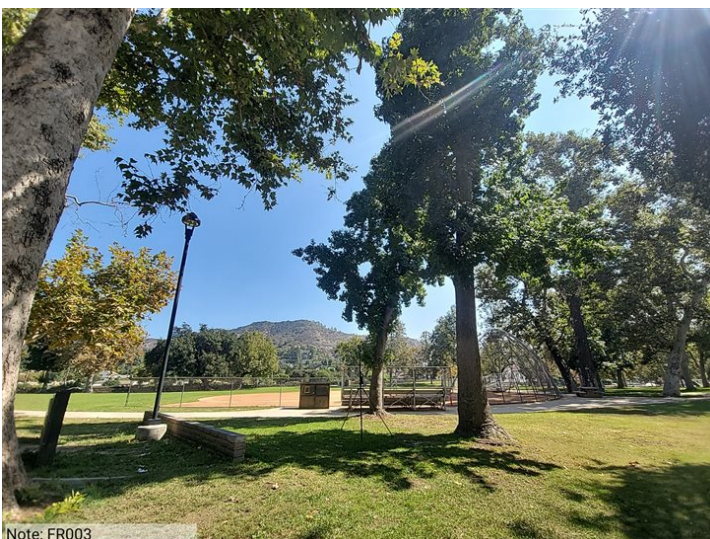
Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3781829.093	386615.451	241.015

Operator	LJR
Receiver Model	Trimble R12
Receiver S/N	0455
Antenna Height	2.000 m

Date (MM-DD-YYYY)	10-10-2023
RMSE Hz	0.007 m
RMSE Z	0.017 m
GPS Method	RTK

PHOTOS



Point ID	FR004
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Los Angeles
Quad	Mount Wilson

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3781624.469	402152.435	338.241

Operator	LJR
Receiver Model	Trimble R12
Receiver S/N	0455
Antenna Height	2.000 m

Date (MM-DD-YYYY)	10-08-2023
RMSE Hz	0.011 m
RMSE Z	0.023 m
GPS Method	RTK

PHOTOS



Point ID	FR005
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Los Angeles
Quad	Long Beach

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

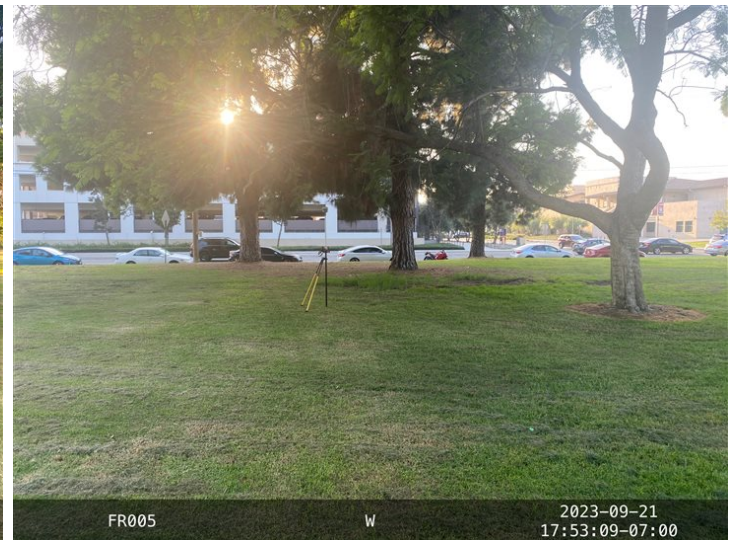
Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3743980.420	395118.526	12.390

Operator	SB
Receiver Model	Trimble R12
Receiver S/N	1107
Antenna Height	2.000 m

Date (MM-DD-YYYY)	09-21-2023
RMSE Hz	0.010 m
RMSE Z	0.020 m
GPS Method	RTK

PHOTOS



Point ID	FR006
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Los Angeles
Quad	Oat Mountain

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

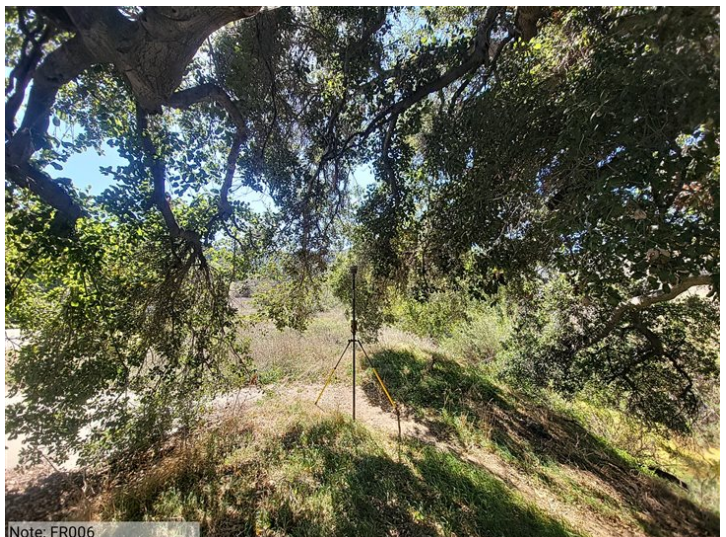
Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3802967.096	356798.882	416.573

Operator	LJR
Receiver Model	Trimble R12
Receiver S/N	0455
Antenna Height	2.000 m

Date (MM-DD-YYYY)	10-12-2023
RMSE Hz	0.006 m
RMSE Z	0.019 m
GPS Method	RTK

PHOTOS



Point ID	FR007
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Los Angeles
Quad	Glendora

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

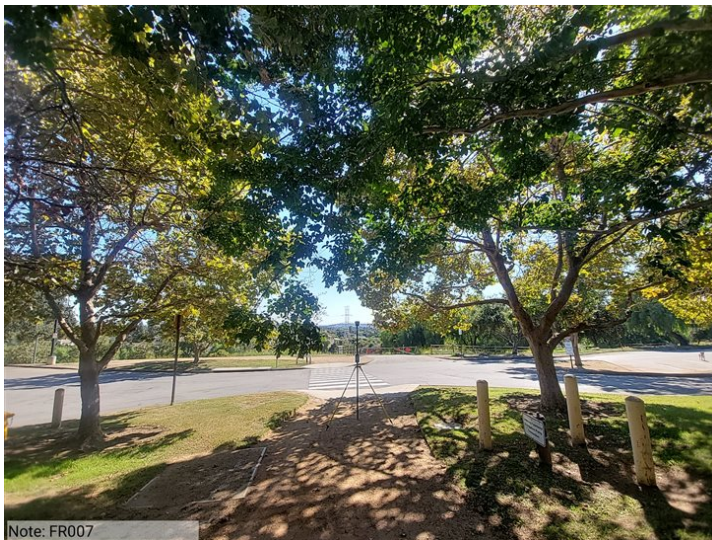
Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3776465.239	426165.987	335.911

Operator	LJR
Receiver Model	Trimble R12
Receiver S/N	0455
Antenna Height	2.000 m

Date (MM-DD-YYYY)	10-06-2023
RMSE Hz	0.007 m
RMSE Z	0.021 m
GPS Method	RTK

PHOTOS



Point ID	FR008
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Los Angeles
Quad	Calabasas

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3778760.178	349756.696	312.444

Operator	SB
Receiver Model	Trimble R12
Receiver S/N	1107
Antenna Height	2.000 m

Date (MM-DD-YYYY)	09-24-2023
RMSE Hz	0.009 m
RMSE Z	0.021 m
GPS Method	RTK

PHOTOS



Point ID	FR009
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Los Angeles
Quad	Newhall

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3818604.290	352297.471	350.970

Operator	LJR
Receiver Model	Trimble R12
Receiver S/N	0455
Antenna Height	2.000 m

Date (MM-DD-YYYY)	10-14-2023
RMSE Hz	0.009 m
RMSE Z	0.028 m
GPS Method	RTK

PHOTOS



Point ID	FR010
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Los Angeles
Quad	San Pedro

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

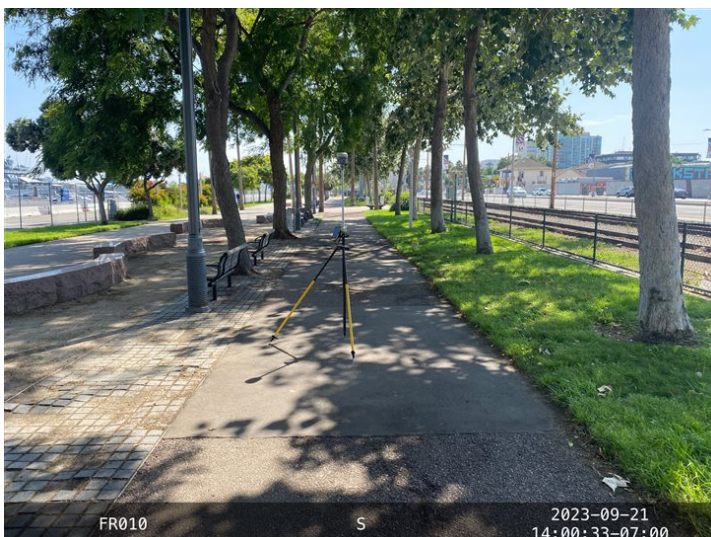
Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3734571.321	381502.472	5.843

Operator	SB
Receiver Model	Trimble R12
Receiver S/N	1107
Antenna Height	2.000 m

Date (MM-DD-YYYY)	09-21-2023
RMSE Hz	0.011 m
RMSE Z	0.025 m
GPS Method	RTK

PHOTOS



Point ID	FR011
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Los Angeles
Quad	Thousand Oaks

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3780248.530	334783.852	291.534

Operator	SB
Receiver Model	Trimble R12
Receiver S/N	1107
Antenna Height	2.000 m

Date (MM-DD-YYYY)	09-24-2023
RMSE Hz	0.010 m
RMSE Z	0.025 m
GPS Method	RTK

PHOTOS



Point ID	FR012
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Los Angeles
Quad	Van Nuys

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

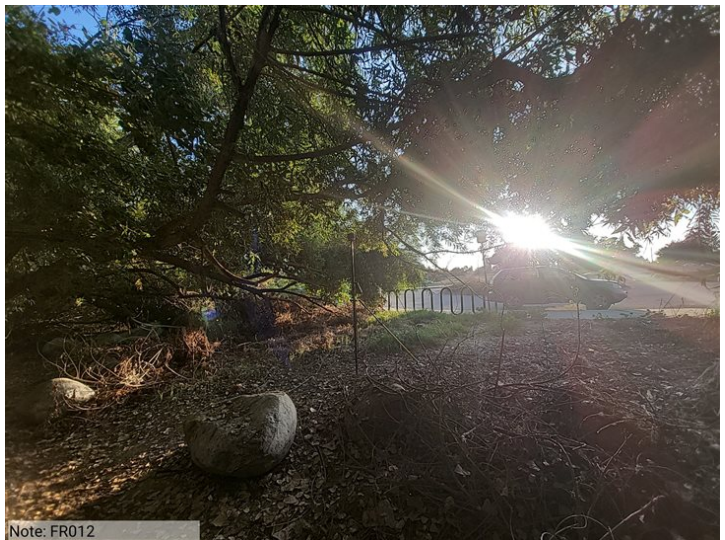
Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3783289.379	361934.711	216.992

Operator	LJR
Receiver Model	Trimble R12
Receiver S/N	0455
Antenna Height	2.000 m

Date (MM-DD-YYYY)	10-10-2023
RMSE Hz	0.007 m
RMSE Z	0.015 m
GPS Method	RTK

PHOTOS



Point ID	FR013
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Los Angeles
Quad	Lancaster East

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

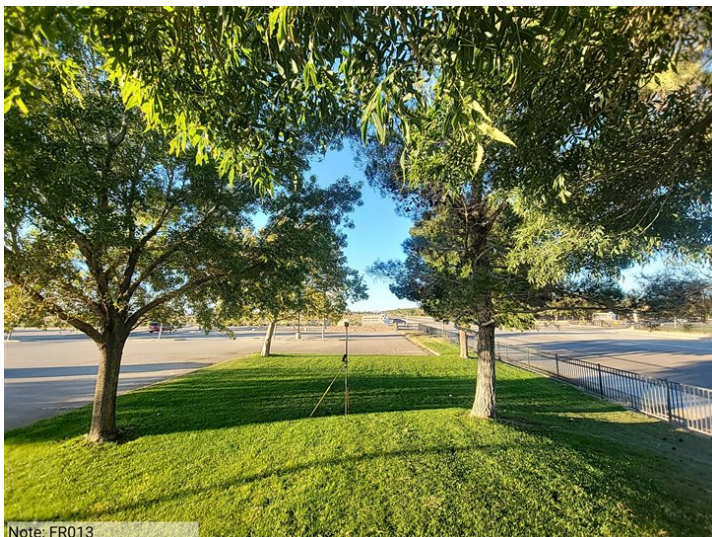
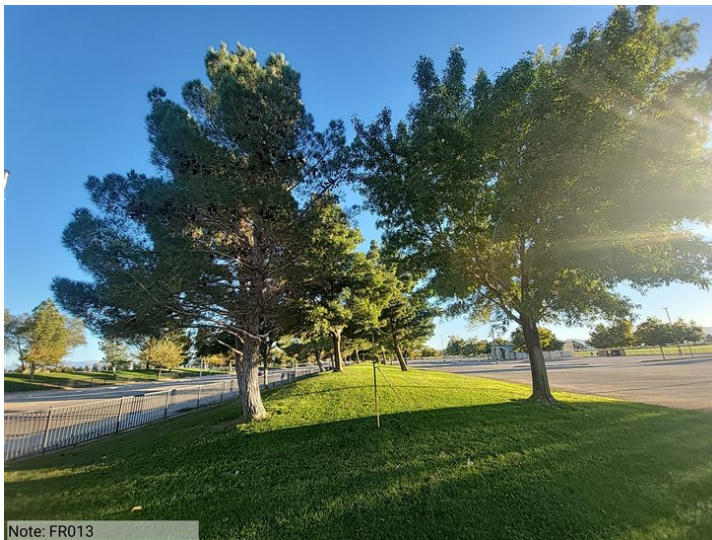
Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3836282.369	401315.631	744.798

Operator	LJR
Receiver Model	Trimble R12
Receiver S/N	0455
Antenna Height	2.000 m

Date (MM-DD-YYYY)	10-15-2023
RMSE Hz	0.008 m
RMSE Z	0.017 m
GPS Method	RTK

PHOTOS



Point ID	FR014
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Los Angeles
Quad	Malibu Beach

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3774382.248	341856.665	172.851

Operator	LJR
Receiver Model	Trimble R12
Receiver S/N	0455
Antenna Height	2.000 m

Date (MM-DD-YYYY)	10-10-2023
RMSE Hz	0.007 m
RMSE Z	0.017 m
GPS Method	RTK

PHOTOS



Point ID	FR015
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Los Angeles
Quad	El Monte

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3773763.847	406679.433	100.062

Operator	LJR
Receiver Model	Trimble R12
Receiver S/N	0455
Antenna Height	2.000 m

Date (MM-DD-YYYY)	10-06-2023
RMSE Hz	0.007 m
RMSE Z	0.018 m
GPS Method	RTK

PHOTOS



Point ID	FR016
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Los Angeles
Quad	Whittier

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

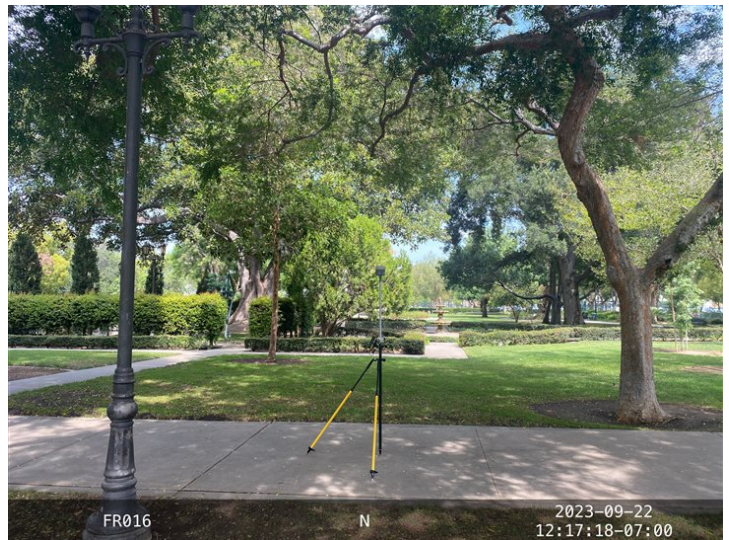
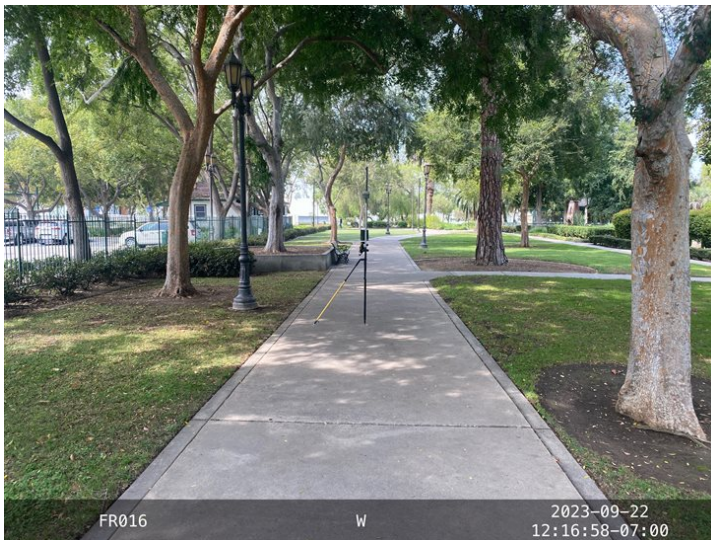
Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3756004.242	400544.280	41.998

Operator	SB
Receiver Model	Trimble R12
Receiver S/N	1107
Antenna Height	2.000 m

Date (MM-DD-YYYY)	09-22-2023
RMSE Hz	0.011 m
RMSE Z	0.021 m
GPS Method	RTK

PHOTOS



Point ID	FR017
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Los Angeles
Quad	Van Nuys

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

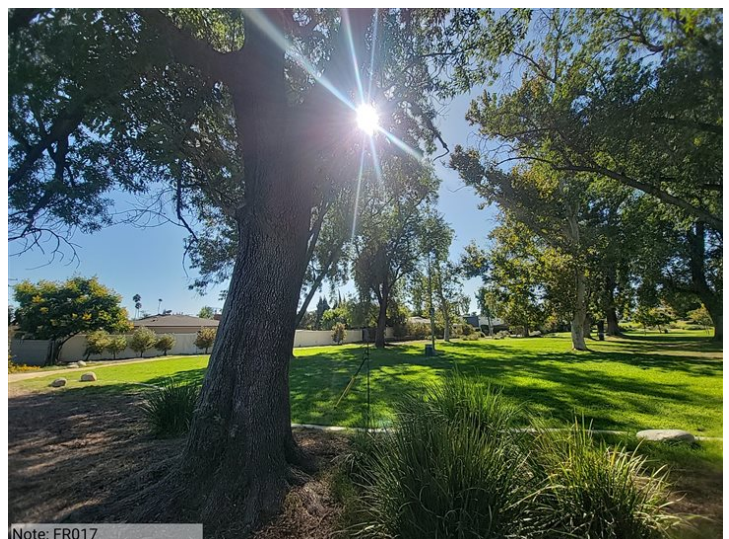
Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3783253.448	369287.744	209.011

Operator	LJR
Receiver Model	Trimble R12
Receiver S/N	0455
Antenna Height	2.000 m

Date (MM-DD-YYYY)	10-11-2023
RMSE Hz	0.005 m
RMSE Z	0.013 m
GPS Method	RTK

PHOTOS



BRUSHLAND POINT LOG SHEETS

Point ID	SH001
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Los Angeles
Quad	Los Angeles

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3775472.941	391953.656	172.515

Operator	LJR
Receiver Model	Trimble R12
Receiver S/N	0455
Antenna Height	2.000 m

Date (MM-DD-YYYY)	10-07-2023
RMSE Hz	0.004 m
RMSE Z	0.015 m
GPS Method	RTK

PHOTOS



Point ID	SH002
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Los Angeles
Quad	Fairmont Butte

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3850634.746	365800.480	830.401

Operator	LJR
Receiver Model	Trimble R12
Receiver S/N	0455
Antenna Height	2.000 m

Date (MM-DD-YYYY)	10-14-2023
RMSE Hz	0.004 m
RMSE Z	0.008 m
GPS Method	RTK

PHOTOS



Point ID	SH003
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Los Angeles
Quad	Sunland

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3794482.329	381134.196	441.597

Operator	LJR
Receiver Model	Trimble R12
Receiver S/N	0455
Antenna Height	2.000 m

Date (MM-DD-YYYY)	10-08-2023
RMSE Hz	0.003 m
RMSE Z	0.008 m
GPS Method	RTK

PHOTOS



Point ID	SH004
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Los Angeles
Quad	Burnt Peak

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3842827.669	355705.612	1174.508

Operator	LJR
Receiver Model	Trimble R12
Receiver S/N	0455
Antenna Height	2.000 m

Date (MM-DD-YYYY)	10-13-2023
RMSE Hz	0.004 m
RMSE Z	0.011 m
GPS Method	RTK

PHOTOS



Point ID	SH005
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Los Angeles
Quad	Little Buttes

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

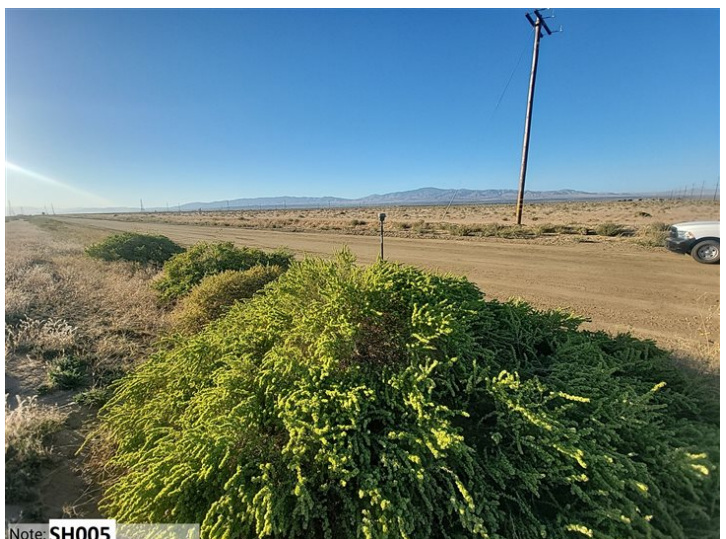
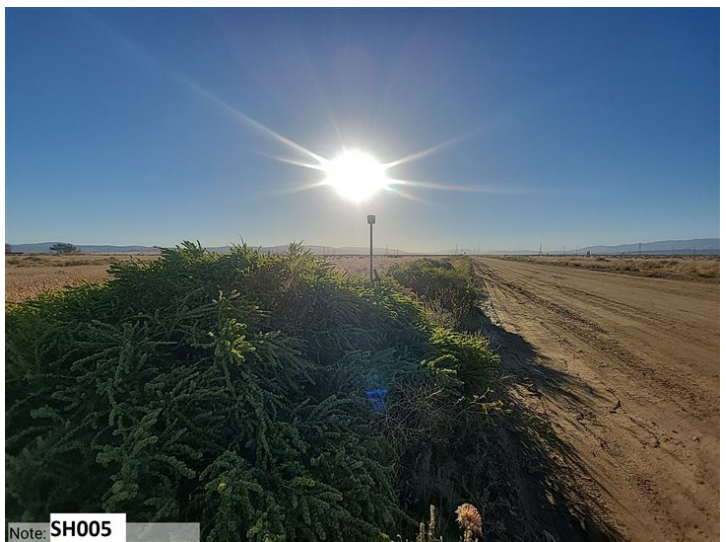
Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3852228.985	378653.805	758.207

Operator	LJR
Receiver Model	Trimble R12
Receiver S/N	0455
Antenna Height	2.000 m

Date (MM-DD-YYYY)	10-14-2023
RMSE Hz	0.004 m
RMSE Z	0.007 m
GPS Method	RTK

PHOTOS



Point ID	SH006
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Los Angeles
Quad	Malibu Beach

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

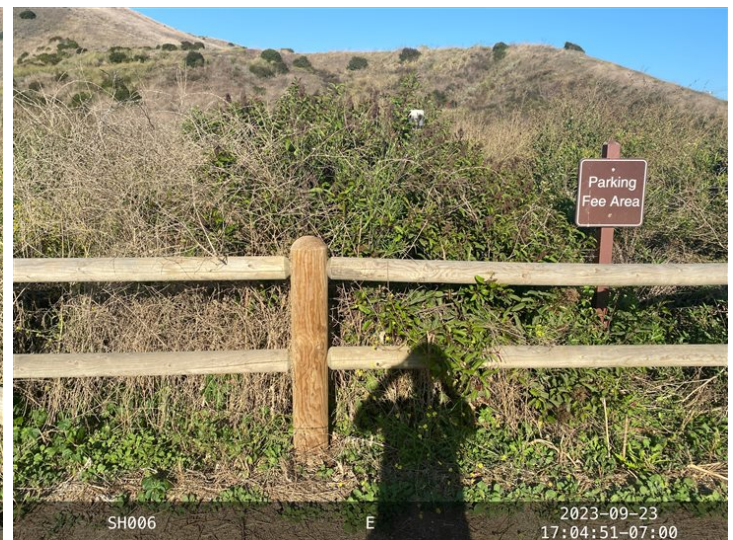
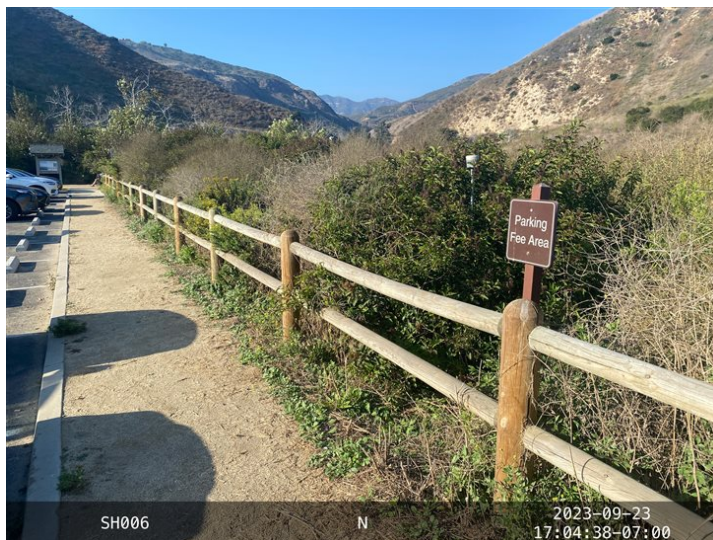
Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3767259.053	339880.162	6.712

Operator	SB
Receiver Model	Trimble R12
Receiver S/N	1107
Antenna Height	2.000 m

Date (MM-DD-YYYY)	09-23-2023
RMSE Hz	0.005 m
RMSE Z	0.009 m
GPS Method	RTK

PHOTOS



Point ID	SH007
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Los Angeles
Quad	Mount Wilson

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

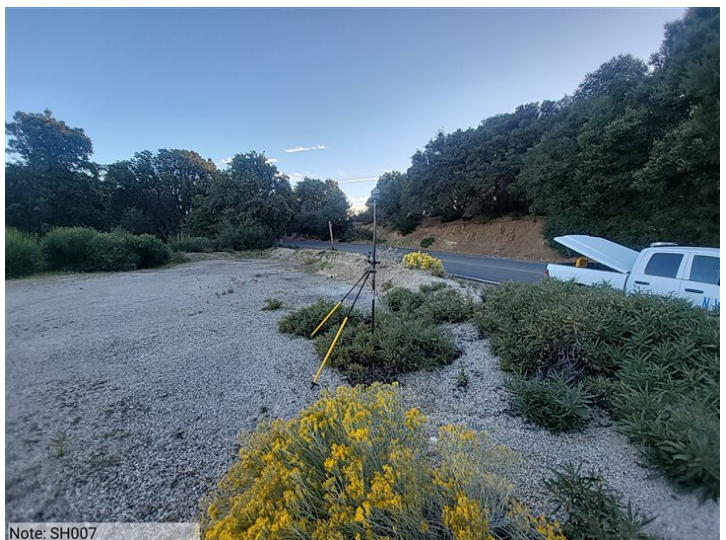
Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3788338.679	401373.988	1694.571

Operator	LJR
Receiver Model	Trimble R12
Receiver S/N	0455
Antenna Height	2.000 m

Date (MM-DD-YYYY)	10-09-2023
RMSE Hz	0.008 m
RMSE Z	0.016 m
GPS Method	Fast-Static

PHOTOS



Point ID	SH008
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Los Angeles
Quad	Jackrabbit Hill

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3850285.564	436078.854	860.914

Operator	LJR
Receiver Model	Trimble R12
Receiver S/N	0455
Antenna Height	2.000 m

Date (MM-DD-YYYY)	10-15-2023
RMSE Hz	0.007 m
RMSE Z	0.013 m
GPS Method	RTK

PHOTOS



Point ID	SH010
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Los Angeles
Quad	Malibu Beach

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3774390.925	341837.147	173.092

Operator	LJR
Receiver Model	Trimble R12
Receiver S/N	0455
Antenna Height	2.000 m

Date (MM-DD-YYYY)	10-10-2023
RMSE Hz	0.005 m
RMSE Z	0.012 m
GPS Method	RTK

PHOTOS



Point ID	SH011
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Los Angeles
Quad	Pacifico Mountain

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3816922.502	397578.252	988.251

Operator	LJR
Receiver Model	Trimble R12
Receiver S/N	0455
Antenna Height	2.000 m

Date (MM-DD-YYYY)	10-09-2023
RMSE Hz	0.006 m
RMSE Z	0.010 m
GPS Method	RTK

PHOTOS



Point ID	SH012
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Los Angeles
Quad	Hi Vista

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3838871.999	424559.332	825.526

Operator	LJR
Receiver Model	Trimble R12
Receiver S/N	0455
Antenna Height	2.000 m

Date (MM-DD-YYYY)	10-15-2023
RMSE Hz	0.006 m
RMSE Z	0.010 m
GPS Method	RTK

PHOTOS



Point ID	SH013
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Los Angeles
Quad	Mescal Creek

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3816916.452	431297.354	1064.232

Operator	LJR
Receiver Model	Trimble R12
Receiver S/N	0455
Antenna Height	2.000 m

Date (MM-DD-YYYY)	10-16-2023
RMSE Hz	0.006 m
RMSE Z	0.011 m
GPS Method	RTK

PHOTOS



Point ID	SH014
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Los Angeles
Quad	Lebec

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3849221.842	339024.773	1014.851

Operator	LJR
Receiver Model	Trimble R12
Receiver S/N	0455
Antenna Height	2.000 m

Date (MM-DD-YYYY)	10-13-2023
RMSE Hz	0.004 m
RMSE Z	0.008 m
GPS Method	RTK

PHOTOS



Point ID	SH016
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Los Angeles
Quad	Littlerock

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3818078.297	416114.015	961.621

Operator	LJR
Receiver Model	Trimble R12
Receiver S/N	0455
Antenna Height	2.000 m

Date (MM-DD-YYYY)	10-16-2023
RMSE Hz	0.005 m
RMSE Z	0.011 m
GPS Method	RTK

PHOTOS



Point ID	SH017
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Los Angeles
Quad	Agua Dulce

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3814054.939	377975.623	646.753

Operator	LJR
Receiver Model	Trimble R12
Receiver S/N	0455
Antenna Height	2.000 m

Date (MM-DD-YYYY)	10-12-2023
RMSE Hz	0.003 m
RMSE Z	0.006 m
GPS Method	RTK

PHOTOS



Point ID	SH018
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Los Angeles
Quad	Triunfo Pass

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

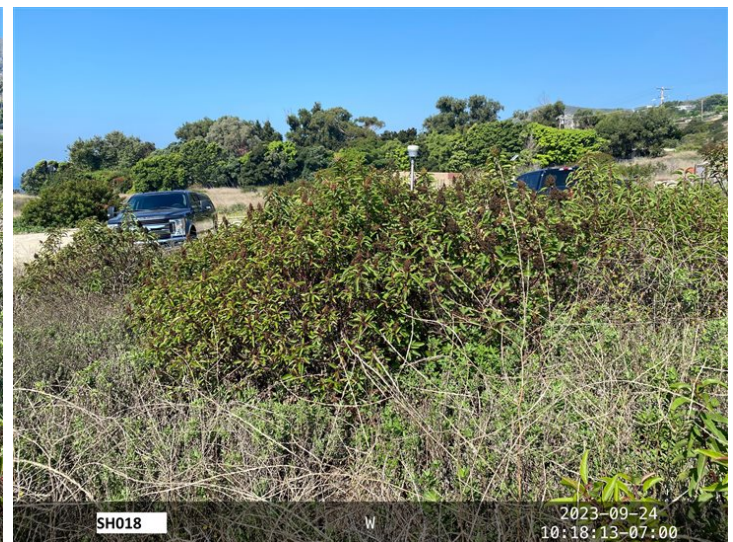
Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3768167.795	325791.208	41.764

Operator	SB
Receiver Model	Trimble R12
Receiver S/N	1107
Antenna Height	2.000 m

Date (MM-DD-YYYY)	09-24-2023
RMSE Hz	0.004 m
RMSE Z	0.008 m
GPS Method	RTK

PHOTOS



Point ID	SH019
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Los Angeles
Quad	Adobe Mountain

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3835864.576	435641.740	870.053

Operator	LJR
Receiver Model	Trimble R12
Receiver S/N	0455
Antenna Height	2.000 m

Date (MM-DD-YYYY)	10-15-2023
RMSE Hz	0.007 m
RMSE Z	0.012 m
GPS Method	RTK

PHOTOS



Point ID	SH020
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Los Angeles
Quad	Oat Mountain

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3802964.483	356807.246	416.514

Operator	LJR
Receiver Model	Trimble R12
Receiver S/N	0455
Antenna Height	2.000 m

Date (MM-DD-YYYY)	10-12-2023
RMSE Hz	0.002 m
RMSE Z	0.005 m
GPS Method	RTK

PHOTOS



Point ID	SH021
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Kern
Quad	Frazier Mountain

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3853227.393	327174.770	1245.524

Operator	LJR
Receiver Model	Trimble R12
Receiver S/N	0455
Antenna Height	2.000 m

Date (MM-DD-YYYY)	10-13-2023
RMSE Hz	0.004 m
RMSE Z	0.010 m
GPS Method	RTK

PHOTOS



Point ID	SH022
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Los Angeles
Quad	Whitaker Peak

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3820420.637	350236.823	482.526

Operator	LJR
Receiver Model	Trimble R12
Receiver S/N	0455
Antenna Height	2.000 m

Date (MM-DD-YYYY)	10-14-2023
RMSE Hz	0.007 m
RMSE Z	0.016 m
GPS Method	RTK

PHOTOS



Point ID	SH023
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Ventura
Quad	Anacapa Island OE E

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3766215.290	281534.818	68.498

Operator	CR
Receiver Model	Trimble R12
Receiver S/N	0455
Antenna Height	2.000 m

Date (MM-DD-YYYY)	11-03-2023
RMSE Hz	0.001 m
RMSE Z	0.003 m
GPS Method	Fast-Static

PHOTOS



Point ID	SH024
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Los Angeles
Quad	Chilao Flat

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3795591.900	402656.032	1129.793

Operator	LJR
Receiver Model	Trimble R12
Receiver S/N	0455
Antenna Height	2.000 m

Date (MM-DD-YYYY)	10-09-2023
RMSE Hz	0.005 m
RMSE Z	0.012 m
GPS Method	Fast-Static

PHOTOS



Point ID	SH025
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Los Angeles
Quad	Littlerock

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3826007.288	414341.549	825.565

Operator	LJR
Receiver Model	Trimble R12
Receiver S/N	0455
Antenna Height	2.000 m

Date (MM-DD-YYYY)	10-16-2023
RMSE Hz	0.007 m
RMSE Z	0.012 m
GPS Method	RTK

PHOTOS



Point ID	SH026
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Los Angeles
Quad	Thousand Oaks

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

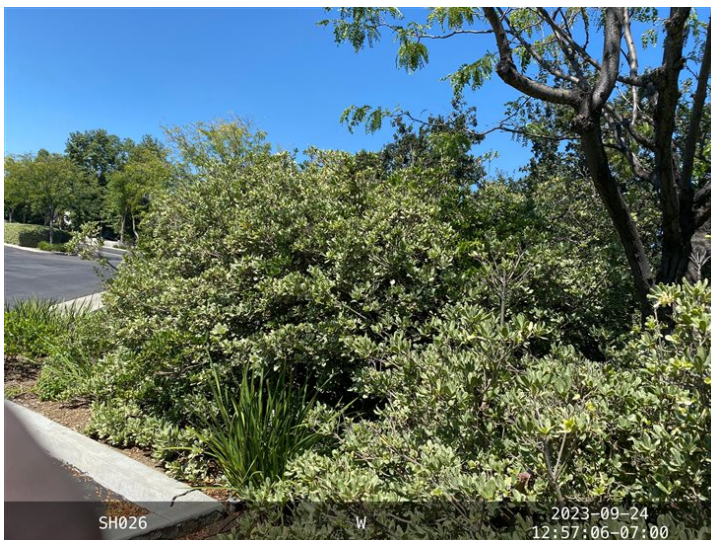
Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3780275.276	334755.615	295.256

Operator	SB
Receiver Model	Trimble R12
Receiver S/N	1107
Antenna Height	2.000 m

Date (MM-DD-YYYY)	09-24-2023
RMSE Hz	0.004 m
RMSE Z	0.009 m
GPS Method	RTK

PHOTOS



Point ID	SH028
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Los Angeles
Quad	Mount Wilson

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3781640.299	402173.255	339.311

Operator	LJR
Receiver Model	Trimble R12
Receiver S/N	0455
Antenna Height	2.000 m

Date (MM-DD-YYYY)	10-08-2023
RMSE Hz	0.005 m
RMSE Z	0.018 m
GPS Method	RTK

PHOTOS



Point ID	SH029
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Los Angeles
Quad	Burbank

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3786323.009	377543.353	285.090

Operator	LJR
Receiver Model	Trimble R12
Receiver S/N	0455
Antenna Height	2.000 m

Date (MM-DD-YYYY)	10-08-2023
RMSE Hz	0.005 m
RMSE Z	0.011 m
GPS Method	RTK

PHOTOS



Point ID	SH030
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Los Angeles
Quad	Acton

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3817668.704	388098.887	898.856

Operator	LJR
Receiver Model	Trimble R12
Receiver S/N	0455
Antenna Height	2.000 m

Date (MM-DD-YYYY)	10-12-2023
RMSE Hz	0.004 m
RMSE Z	0.008 m
GPS Method	RTK

PHOTOS



Point ID	SH031
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Santa Barbara
Quad	Santa Rosa Island North

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
UTM 10N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3766446.735	772261.127	22.396

Operator	BKE
Receiver Model	Trimble R12
Receiver S/N	0455
Antenna Height	2.000 m

Date (MM-DD-YYYY)	10-24-2023
RMSE Hz	0.001 m
RMSE Z	0.002 m
GPS Method	Fast-Static

PHOTOS



Point ID	SH032
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Santa Barbara
Quad	Santa Cruz Island C OE N

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3767367.288	252348.839	5.071

Operator	BKE
Receiver Model	Trimble R12
Receiver S/N	0455
Antenna Height	2.000 m

Date (MM-DD-YYYY)	10-27-2023
RMSE Hz	0.013 m
RMSE Z	0.021 m
GPS Method	Fast-Static

PHOTOS



Point ID	SH033
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Santa Barbara
Quad	Santa Cruz Island D

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

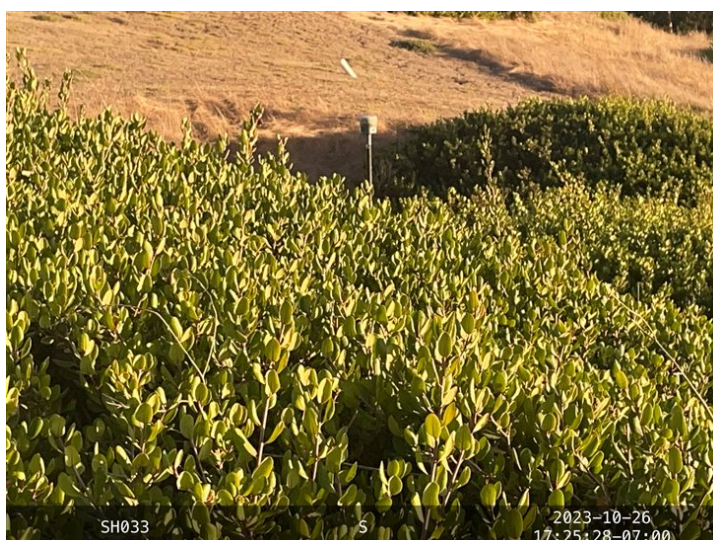
Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3770668.412	263478.625	36.456

Operator	BKE
Receiver Model	Trimble R12
Receiver S/N	0455
Antenna Height	2.000 m

Date (MM-DD-YYYY)	10-26-2023
RMSE Hz	0.001 m
RMSE Z	0.001 m
GPS Method	Fast-Static

PHOTOS



Point ID	SH036
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Santa Barbara
Quad	Santa Cruz Island C OE N

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3767459.553	252759.588	64.276

Operator	BKE
Receiver Model	Trimble R12
Receiver S/N	0455
Antenna Height	2.000 m

Date (MM-DD-YYYY)	10-27-2023
RMSE Hz	0.007 m
RMSE Z	0.012 m
GPS Method	Fast-Static

PHOTOS



Point ID	SH051
Project No.	R037786.00
Project Name	LA_County_Lidar
State	California
County	Los Angeles
Quad	Black Mountain

	Aerial Target
	LiDAR Ground Control
X	LiDAR QC Point
	New Control
	Photo ID
	Published Control

Coordinate System
UTM 11N
NAD83(2011)
NAVD88
GEOID18
Meters

Northing	Easting	Elevation
3837180.334	338507.898	834.537

Operator	LJR
Receiver Model	Trimble R12
Receiver S/N	0455
Antenna Height	2.000 m

Date (MM-DD-YYYY)	10-13-2023
RMSE Hz	0.003 m
RMSE Z	0.006 m
GPS Method	RTK

PHOTOS



Surveyor's Certificate

I, Steven J. Hyde, being a Licensed Professional Land Surveyor in and by the State of California, hereby certify to the best of my professional knowledge and belief that the survey methodologies and results shown on the attached report for the State portion of the report titled Survey Report of LiDAR Calibration & Quality Control Points, USGS Contract: 140G0221D0012 CA_LosAngeles_B23, dated June 26, 2024, were performed and obtained utilizing commonly acceptable survey standards, practices and procedures. The survey portion of this project was accomplished between September 21, 2023 through November 03, 2023.

I have reviewed the accuracy statements as part of my oversight and found them to meet the National Standards for Spatial Accuracy (NSSDA) shown.

Steven J. Hyde

Digitally signed by Steven J. Hyde
Date: 2024.06.28 13:26:24 -04'00'
STEVEN J. HYDE
No. 9787



Steven J. Hyde
CA PLS #9787
NV5 Lexington, KY