ILLINOIS MID NORTH DU PAGE
LIDAR MAPPING PROJECT
GROUND CONTROL SURVEY REPORT

JOB NO. 65221205
DATE MARCH 2022

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USGS ILLINOIS MID NORTH DU PAGE
LIDAR MAPPING PROJECT
GROUND CONTROL SURVEY REPORT

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I. INTRODUCTION

This report summarizes the results of a ground control survey requested by USGS. The survey was conducted in all or part of Dewitt, DuPage, Fulton, Henderson, Knox, McDonough, McLean, Marshall, Mercer, Peoria, Piatt, Putnam, Stark, Tazewell, Warren, and Woodford Counties in Illinois. The purpose of the survey of ground control and check points for LIDAR (Light Detection and Ranging) mapping of an area of interest covering approximately 9013 square miles.

Ground control field observations were performed by Merrick & Company personnel. Field effort commenced on March 8th, 2022, through March 29th, 2022. Equipment used for this project included two Trimble R12i GNSS receivers with RTX service provided by Trimble (A satellite-based service using worldwide continuously operating reference stations). Horizontal and vertical measurements were verified by recovering and observing coordinates from the Trimble R12i GNSS receivers with the RTX service to 39 NGS (National Geodetic Survey) ground stations. The quality of LiDAR data was verified with 520 checkpoints. These checkpoints were utilized to verify confidence levels of the LIDAR datasets.

II. HORIZONTAL AND VERTICAL CONTROL

The coordinate systems for this project is Illinois East and West Zones based on North American Datum of 1983 (NAD83), adjustment of 2011. The geodetic network was tied to CORS (Continuously Operating Reference Stations) via RTX and NGS ground stations. RTX coordinates are observed in International Terrestrial Reference Frame datum with the realization year of 2014 (ITRF (2014)).

Coordinate values measured utilizing the RTX network were converted into NAD83(2011) values using the HTDP (Horizontal Time Dependent Positioning) program version 3.2.9. NAVD 88 elevations were computed using Geoid 18. HTDP program is provided by the National Geodetic Survey and is built into Trimble TSC5 data collectors. The following existing NGS control points were used as horizontal checks to control this survey:

STATION NAME	RECORD NAD83(2011)		
	LATITUDE	LONGITUDE	ELLIPSOID HEIGHT
			US FT
14 15 22 23	41°56'38.44554"N	°88°11'03.56532"W	632.79
95 7567 ME	41°11'57.97706"N	°90°43'56.46347"W	629.79
525	41°44'50.88294"N	°88°10'00.82610"W	595.35
A 57	40°28'58.38293"N	°90°29'42.10243"W	548.69
A 172	40°39'00.79835"N	°88°59'53.90687"W	631.21
B 165	40°21'25.35722"N	°88°47'34.83503"W	691.23
BONTZ	40°46'32.83235"N	°89°42'30.75109"W	597.15
BRIMFIELD	40°49'40.13268"N	°89°53'21.20233"W	568.83
COO DUP83 3A	41°59'34.68858"N	°87°57'45.05133"W	562.87
D 229	40°44'02.85725"N	°89°00'53.93136"W	622.94
DISTRICT 3 GPS 2084	41°10'36.60410"N	°89°12'45.43351"W	575.62
GOODFIELD 2	40°37'40.87028"N	°89°16'29.13119"W	641.09
H 172	40°33'41.74011"N	°88°59'20.73151"W	724.99
ILDOT D4 1953	41°01'54.66022"N	°89°37'14.27056"W	694.86
ILDOT D4 4906	40°18'16.14546"N	°90°11'28.91217"W	466.82
ILDOT D4 5354	41°02'04.03746"N	°90°16'24.95350"W	707.99
ILDOT D4 5510	40°21'05.26669"N	°90°18'55.20395"W	552.59
ILDOT D4 6414	40°24'50.13328"N	°90°29'39.42454"W	537.93
ILDOT D4 8366	41°11'11.78093"N	°90°55'56.69906"W	481.94
ILDOT D4 8734	40°40'52.71988"N	°90°58'58.18608"W	602.00
J 229	40°48'35.18162"N	°89°01'25.73111"W	594.43
J 297	40°22'30.41368"N	°88°49'44.70445"W	697.71
K 235	40°37'45.44355"N	°89°37'06.08741"W	360.88
KNOXVILLE	40°54'28.88920"N	°90°16'40.34130"W	665.91
LEMONT 103	41°42'01.26175"N	°88°00'21.93716"W	638.72
LISLE 08	41°48'28.55415"N	°88°05'45.89310"W	630.71
MASON 13	40°17'49.56722"N	°90°02'19.39536"W	365.39
MASON 16	40°17'49.53295"N	°89°58'18.01873"W	385.33
N 239	40°16'29.99204"N	°90°03'58.00316"W	360.90
NORWOOD	41°05'15.76201"N	°90°35'22.14054"W	617.27
P 229	40°52'55.69795"N	°89°01'51.22409"W	633.10
PTS 61	40°23'21.10842"N	°90°52'07.89425"W	534.58
Q 161	40°32'59.67092"N	°89°35'31.83186"W	535.15
Q 238	40°27'50.54848"N	°89°50'15.12051"W	402.26
U 232	41°11'06.27318"N	°89°23'44.01531"W	406.35
WAPELLA ECC	40°13'16.60900"N	°88°57'45.01682"W	640.83
Y 33	40°33'25.70200"N	°90°41'36.34800"W	602.13
Y 43	40°40'22.06923"N	°90°02'06.48641"W	648.32
Y 296	40°14'11.38228"N	°88°36'29.06464"W	605.95

STATION NAME	COMPARRISONS	
	RECORD VERSUS MEASURED	
	NORTHING	EASTING
	US FT	US FT
14 15 22 23	-0.04	0.00
95 7567 ME	-0.01	0.06
525	0.05	-0.03
A 57	0.04	-0.01
A 172	0.00	0.01
B 165	0.03	-0.01
BONTZ	0.02	0.02
BRIMFIELD	0.00	-0.01
COO DUP83 3A	0.03	0.02
D 229	0.00	-0.05
DISTRICT 3 GPS 2084	-0.04	-0.03
GOODFIELD 2	0.02	-0.05
H 172	0.06	0.05
ILDOT D4 1953	-0.04	0.01
ILDOT D4 4906	0.06	0.03
ILDOT D4 5354	-0.06	0.02
ILDOT D4 5510	0.07	0.00
ILDOT D4 6414	0.04	0.08
ILDOT D4 8366	-0.03	0.02
ILDOT D4 8734	0.07	0.06
J 229	-0.01	0.01
J 297	0.07	0.00
K 235	0.12	-0.01
KNOXVILLE	0.00	0.00
LEMONT 103	-0.03	0.00
LISLE 08	-0.05	-0.02
MASON 13	0.04	0.06
MASON 16	0.03	0.00
N 239	0.05	0.10
NORWOOD	0.03	-0.03
P 229	0.02	-0.03
PTS 61	0.17	-0.16
Q 161	-0.02	-0.04
Q 238	-0.02	-0.02
U 232	0.04	0.02
WAPELLA ECC	0.02	0.02
Y 33	-0.06	-0.06
Y 43	0.03	0.02
Y 296	-0.01	0.06

STATION NAME	NAVD 88 VERTICALCOMPARRISONS		
	RECORD	MEASURED	DIFFERENCE
	US FT	US FT	
14 15 22 23	742.108	742.045	-0.06
95 7567 ME	737.932	737.97	0.03
525	704.054	703.93	-0.12
A 57	657.495	657.49	0.00
A 172	736.75	736.76	0.01
B 165	796.012	795.96	-0.05
BONTZ	705.399	705.37	-0.02
BRIMFIELD	677.551	677.47	-0.08
COO DUP83 3A	673.148	673.093	-0.06
D 229	728.936	728.92	-0.02
GOODFIELD 2	747.413	747.45	0.04
H 172	830.185	830.24	0.06
ILDOT D4 1953	803.214	803.19	-0.03
ILDOT D4 4906	575.317	575.21	-0.11
ILDOT D4 5354	815.92	815.87	-0.05
ILDOT D4 5510	661.19	661.12	-0.07
ILDOT D4 6414	646.718	646.68	-0.04
ILDOT D4 8366	590.379	590.48	0.10
ILDOT D4 8734	711.278	711.29	0.01
J 297	802.567	802.50	-0.07
K 235	468.966	469.00	0.04
KNOXVILLE	774.319	774.41	0.09
LEMONT 103	747.643	747.713	0.07
LISLE 08	739.684	739.682	0.00
MASON 13	473.765	473.76	0.00
MASON 16	493.487	493.45	-0.03
N 239	469.228	469.27	0.04
NORWOOD	725.307	725.37	0.06
P 229	739.493	739.39	-0.11
PTS 61	643.493	643.42	-0.07
Q 161	642.929	643.07	0.14
Q 238	510.544	510.40	-0.14
U 232	515.051	515.02	-0.03
WAPELLA ECC	746.252	746.41	0.16
Y 33	711.442	711.48	0.04
Y 296	710.717	710.69	-0.03

III. JOB SUMMARY AND EQUIPMENT

The coordinate systems are Illinois state plane East and West Zones. The units are in us feet. The projection parameters are as follows:

ILLINOIS EAST ZONE STATE PLANE
PROJECTION: TRANSVERSE MERCATOR
LATITUDE OF ORIGIN = N 36° 40’ 00.000000”
LONGITUDE OF ORIGIN = W 88° 20’ 00.000000”
FALSE NORTHING =0.000
FALSE EASTING =984250.000
SCALE FACTOR =0.9999750000

ILLINOIS WEST ZONE STATE PLANE
PROJECTION: TRANSVERSE MERCATOR
LATITUDE OF ORIGIN = N 36° 40’ 00.000000”
LONGITUDE OF ORIGIN = W 90° 10’ 00.000000”
FALSE NORTHING =0.000
FALSE EASTING =2296583.333
SCALE FACTOR =0.9999411765

The data collected was converted and checked with published ground station coordinates. The specifications for accuracy with RTX are 2 centimeters horizontally and 5 centimeters vertically. Existing NGS published control stations were surveyed to assure that there were no discrepancies in the field observation data. Close examinations of the residuals showed no distortions in orientation or scale.

Satellite data was collected using two Trimble R12i receivers. The coordinates were processed using Trimble Business Center (Version 5.60).

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PT #	NAD83(2011)		ELLIPSOID	ILLINOIS EAST ZONE		NAVD 88	CODE	NOTE
	LATITUDE	LONGITUDE	HEIGHT	STATE PLANE		ELEVATION		
			US FT	NORTHING	EASTING	US FT		
				US FT	US FT			
2001	41°49'18.43556"N	88°05'44.40258"W	617.58	1877739.32	1049030.59	726.59	LIPT	NVA
2002	41°48'56.69438"N	87°59'42.41187"W	645.18	1875630.52	1076447.00	754.41	LIPT	NVA
2003	41°45'20.51396"N	88°10'03.93940"W	591.42	1853610.88	1029426.42	700.11	LIPT	NVA
2004	41°56'36.75606"N	88°01'58.04570"W	628.43	1922160.39	1066013.59	738.23	LIPT	NVA
2005	41°53'05.27889"N	88°08'06.89955"W	662.97	1900673.22	1038188.62	772.16	LIPT	NVA
2006	41°44'13.32520"N	88°03'28.30063"W	619.29	1846886.97	1059434.33	728.20	LIPT	NVA
2007	41°54'09.04587"N	87°59'59.74881"W	614.40	1907241.92	1075011.46	724.03	LIPT	NVA
2008	41°46'28.54890"N	88°05'39.13471"W	621.20	1860544.53	1049477.28	730.09	LIPT	NVA
2009	41°54'00.82919"N	88°12'06.35620"W	662.25	1906261.31	1020067.60	771.34	LIPT	NVA
2009A	41°53'30.29651"N	88°08'26.86780"W	652.89	1903202.10	1036672.55	762.10	LIPT	NVA
2010	41°45'26.44743"N	88°00'25.91960"W	654.43	1854336.65	1073233.27	763.48	LIPT	NVA
2011	41°49'12.30629"N	88°09'59.95258"W	629.83	1877073.39	1029683.11	738.67	LIPT	NVA
2012	41°52'30.11953"N	87°57'42.21306"W	554.59	1897271.17	1085455.12	664.14	LIPT	NVA
2013	41°50'12.71084"N	88°12'38.70015"W	623.79	1883167.32	1017654.67	732.58	LIPT	NVA
2014	41°43'32.34007"N	88°12'29.40942"W	592.22	1842643.03	1018416.93	700.79	LIPT	NVA
2015	41°56'57.93764"N	88°10'12.65930"W	671.39	1924203.35	1028631.41	780.83	LIPT	NVA
2016	41°45'29.22231"N	87°57'28.01812"W	635.47	1854672.51	1086715.17	744.65	LIPT	NVA
2017	41°51'47.37757"N	88°03'33.72770"W	678.45	1892844.78	1058876.41	787.71	LIPT	NVA
2018	41°56'31.27392"N	88°06'08.86363"W	681.46	1921546.73	1047060.69	791.05	LIPT	NVA
2019	41°43'51.29407"N	88°06'59.59805"W	581.06	1844611.20	1043420.72	689.83	LIPT	NVA
2019A	41°44'09.06807"N	88°03'06.56200"W	636.56	1846461.40	1061083.83	745.47	LIPT	NVA
2020	41°54'05.53912"N	88°04'36.18803"W	675.95	1906815.07	1054108.52	785.37	LIPT	NVA
2021	41°58'05.39178"N	87°57'19.42111"W	570.85	1931215.67	1087029.79	680.99	LIPT	NVA
2022	41°58'34.00679"N	88°15'57.63899"W	657.10	1933892.67	1002555.96	766.48	LIPT	NVA
2023	41°44'04.14641"N	88°15'06.53670"W	604.99	1845848.12	1006499.39	713.49	LIPT	NVA
2023A	41°45'09.18257"N	88°14'36.06904"W	576.70	1852433.30	1008802.46	685.23	LIPT	NVA
2024	41°41'57.34263"N	88°00'08.17751"W	627.17	1833176.48	1074659.34	736.15	LIPT	NVA
2025	41°52'59.31480"N	88°07'34.59634"W	672.13	1900075.29	1040633.48	781.33	LIPT	NVA
3001	41°49'33.46104"N	88°05'47.79742"W	640.58	1879259.50	1048769.36	749.60	LIPT	VVA
3002	41°48'50.23085"N	87°59'38.26936"W	654.37	1874977.52	1076763.26	763.59	LIPT	VVA
3003	41°45'16.42810"N	88°10'29.03706"W	573.87	1853193.73	1027524.99	682.54	LIPT	VVA

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PT #	NAD83(2011)		ELLIPSOID	ILLINOIS EAST ZONE		NAVD 88	CODE	NOTE
	LATITUDE	LONGITUDE	HEIGHT	STATE PLANE		ELEVATION		
			US FT	NORTHING	EASTING	US FT		
				US FT	US FT			
3004	41°56'46.10945"N	88°01'42.97944"W	621.09	1923111.19	1067148.79	730.91	LIPT	VVA
3005	41°53'29.66906"N	88°08'26.88594"W	651.04	1903138.58	1036671.32	760.24	LIPT	VVA
3006	41°44'09.80956"N	88°03'07.06930"W	637.16	1846536.33	1061045.12	746.07	LIPT	VVA
3006A	41°43'04.13428"N	88°04'13.33234"W	536.81	1839872.88	1056041.71	645.67	LIPT	VVA
3007	41°54'09.23504"N	87°59'57.94142"W	613.21	1907261.59	1075148.06	722.83	LIPT	VVA
3008	41°49'44.81628"N	88°12'33.33966"W	609.16	1880344.41	1018064.52	717.93	LIPT	VVA
3008A	41°49'34.37818"N	88°12'12.37732"W	606.87	1879290.21	1019653.07	715.65	LIPT	VVA
3009	41°56'52.86932"N	88°10'07.23638"W	671.22	1923691.11	1029042.17	780.66	LIPT	VVA
3010	41°45'27.36764"N	87°57'27.51491"W	630.77	1854484.95	1086754.13	739.94	LIPT	VVA
3011	41°42'41.69271"N	87°56'40.32238"W	558.09	1837731.41	1090406.58	667.24	LIPT	VVA
3012	41°58'44.99804"N	87°57'37.33255"W	565.32	1935218.81	1085659.28	675.51	LIPT	VVA
3013	41°58'28.35367"N	88°15'21.99273"W	655.65	1933322.72	1005248.90	765.04	LIPT	VVA
3014	41°44'14.93568"N	88°14'47.81791"W	608.40	1846941.58	1007917.49	716.91	LIPT	VVA
3014A	41°43'20.77975"N	88°12'36.60676"W	588.18	1841472.13	1017872.85	696.75	LIPT	VVA
3015	41°51'46.05297"N	88°03'33.75295"W	672.21	1892710.70	1058874.93	781.47	LIPT	VVA
4001	41°49'18.25751"N	88°05'51.22482"W	607.68	1877719.88	1048514.10	716.69	LIPT	CAL
4002	41°48'56.81822"N	87°59'39.06734"W	645.14	1875644.05	1076700.20	754.36	LIPT	CAL
4003	41°45'19.44199"N	88°10'19.57410"W	587.41	1853500.13	1028241.65	696.09	LIPT	CAL
4004	41°56'29.46548"N	88°02'02.28477"W	628.93	1921421.30	1065695.82	738.71	LIPT	CAL
4005	41°53'13.17885"N	88°08'02.30014"W	667.90	1901473.67	1038534.66	777.10	LIPT	CAL
4005A	41°52'57.34836"N	88°07'33.82472"W	666.85	1899876.39	1040692.33	776.05	LIPT	CAL
4006	41°44'14.24088"N	88°03'08.77752"W	634.09	1846984.44	1060914.15	743.00	LIPT	CAL
4006A	41°43'03.56805"N	88°04'13.39970"W	536.11	1839815.55	1056036.77	644.97	LIPT	CAL
4007	41°54'05.39445"N	88°00'00.40747"W	614.36	1906872.12	1074963.09	723.98	LIPT	CAL
4008	41°50'06.33838"N	88°12'33.79965"W	620.37	1882522.83	1018026.55	729.16	LIPT	CAL
4009	41°56'57.82129"N	88°09'55.64949"W	683.55	1924194.05	1029916.75	793.01	LIPT	CAL
4010	41°42'36.01448"N	87°56'47.21835"W	573.12	1837154.31	1089886.15	682.27	LIPT	CAL
4011	41°59'29.72935"N	87°57'36.83583"W	566.77	1939746.82	1085677.08	677.03	LIPT	CAL
4012	41°58'27.21207"N	88°15'18.66855"W	656.51	1933207.39	1005500.09	765.90	LIPT	CAL
4013	41°44'10.14260"N	88°15'07.82084"W	609.14	1846454.95	1006401.46	717.64	LIPT	CAL
4013A	41°44'04.22033"N	88°15'18.92361"W	596.90	1845854.73	1005560.25	705.40	LIPT	CAL

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PT #	NAD83(2011)		ELLIPSOID	ILLINOIS EAST ZONE		NAVD 88	CODE	NOTE
	LATITUDE	LONGITUDE	HEIGHT	STATE PLANE		ELEVATION		
			US FT	NORTHING	EASTING	US FT		
				US FT	US FT			
COO DUP83 3A	41°59'34.68884"N	87°57'45.05108"W	562.83	1940246.15	1085054.54	673.09	MFIR	
LEMONT 103	41°42'01.26148"N	88°00'21.93715"W	638.74	1833569.15	1073614.05	747.71	MFAC	
LISLE 08	41°48'28.55363"N	88°05'45.89337"W	630.71	1872689.96	1048931.66	739.68	MFIR	
14 15 22 23	41°56'38.44513"N	88°11'03.56538"W	632.66	1922223.27	1024788.20	742.05	MFDK	
525	41°44'50.88341"N	88°10'00.82647"W	595.25	1850612.17	1029668.16	703.93	MFIR	

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PT	NAD83(2011)		ELLIPSOID	ILLINOIS EAST ZONE		NAVD88	CODE	NOTE
NAME	LATITUDE	LONGITUDE	HEIGHT	STATE PLANE		ELEVATION		
			US FT	NORTHING	EASTING	GEOID 18		
				US FT	US FT	US FT		
5001	40°03'18.36688"N	88°44'43.71476"W	585.07	1234248.85	868878.36	690.11	LIPT	NVA
5002	40°29'29.61248"N	90°20'33.72297"W	395.62	1399345.73	425352.75	504.62	LIPT	NVA
5003	40°47'57.64470"N	90°47'53.12501"W	624.66	1514707.06	301821.26	733.48	LIPT	NVA
5004	40°30'53.28723"N	89°54'21.56608"W	351.66	1405347.39	546978.41	460.01	LIPT	NVA
5005	40°44'10.76537"N	89°00'28.21055"W	629.54	1482870.30	797328.61	735.44	LIPT	NVA
5006	40°27'02.37772"N	88°43'00.31124"W	760.34	1378312.67	877542.00	865.29	LIPT	NVA
5007	40°12'36.94352"N	90°25'38.78359"W	543.82	1297406.63	399354.92	652.34	LIPT	NVA
5008	39°50'34.27930"N	88°27'56.63666"W	576.33	1156693.48	947072.71	681.79	LIPT	NVA
5009	41°10'48.06743"N	89°49'54.18565"W	675.61	1647358.69	571776.88	783.96	LIPT	NVA
5010	40°47'52.16767"N	89°12'06.96711"W	633.60	1505749.66	743760.25	740.14	LIPT	NVA
5011	40°58'05.15342"N	90°20'31.23519"W	683.02	1572971.65	429518.42	791.22	LIPT	NVA
5012	40°21'07.34033"N	90°19'42.27732"W	539.58	1348422.87	428179.67	648.18	LIPT	NVA
5012A	40°20'32.26789"N	90°15'58.04378"W	511.35	1344487.94	445463.95	619.93	LIPT	NVA
5013	40°55'48.81272"N	89°45'43.10841"W	630.52	1556021.26	589485.55	738.75	LIPT	NVA
5013A	40°56'26.27900"N	89°45'27.56473"W	620.88	1559793.72	590740.43	729.13	LIPT	NVA
5014	40°12'45.91853"N	88°30'22.25255"W	622.45	1291459.61	935976.22	727.42	LIPT	NVA
5015	41°14'24.93277"N	90°49'07.08728"W	633.28	1675531.97	300709.16	741.41	LIPT	NVA
5016	40°21'57.14236"N	90°25'32.06528"W	625.36	1354088.86	401215.51	734.02	LIPT	NVA
5017	40°36'54.28956"N	89°48'36.42016"W	508.28	1441421.02	574249.27	616.59	LIPT	NVA
5018	40°55'28.09571"N	89°11'07.96714"W	593.74	1551847.24	748746.93	700.82	LIPT	NVA
5019	40°26'01.60858"N	89°18'52.49850"W	528.93	1373448.56	711092.29	635.76	LIPT	NVA
5020	40°39'43.17608"N	90°26'11.49021"W	527.84	1462052.23	400737.50	637.02	LIPT	NVA
5020A	40°39'58.61050"N	90°25'55.24604"W	530.42	1463584.42	402026.78	639.60	LIPT	NVA
5021	41°03'51.84741"N	90°33'33.97270"W	585.95	1609518.50	370363.20	694.05	LIPT	NVA
5022	41°06'50.20295"N	90°09'46.94812"W	652.03	1625027.86	480060.95	759.81	LIPT	NVA
5023	40°16'05.02668"N	88°50'31.57132"W	690.52	1311968.25	842273.69	795.46	LIPT	NVA
5024	40°29'23.91191"N	89°39'50.75050"W	412.27	1395195.16	614101.56	520.21	LIPT	NVA

PT	NAD83(2011)		ELLIPSOID	ILLINOIS EAST ZONE		NAVD88	CODE	NOTE
NAME	LATITUDE	LONGITUDE	HEIGHT	STATE PLANE		ELEVATION		
			US FT	NORTHING	EASTING	GEOID 18		
				US FT	US FT	US FT		
5025	41°00'48.54550"N	90°45'15.12934"W	485.79	1592396.58	316133.89	594.16	LIPT	NVA
5025A	41°03'14.53704"N	90°45'53.79344"W	489.97	1607256.12	313581.55	598.33	LIPT	NVA
5026	40°34'05.39619"N	88°32'11.50913"W	672.43	1420954.32	927797.74	777.57	LIPT	NVA
5027	41°07'36.66546"N	90°43'48.55020"W	566.97	1633522.88	323907.72	675.21	LIPT	NVA
5028	40°35'00.54444"N	89°08'12.19084"W	663.88	1427487.92	761102.75	769.65	LIPT	NVA
5029	40°54'05.61905"N	90°38'29.01470"W	654.13	1550770.06	346192.25	762.57	LIPT	NVA
5030	41°16'00.10009"N	89°13'17.67859"W	573.93	1676636.23	740060.64	682.30	LIPT	NVA
5031	41°04'41.45004"N	89°37'59.43541"W	743.00	1609373.86	625878.71	851.42	LIPT	NVA
5032	40°22'53.83583"N	90°37'08.97677"W	525.04	1361162.31	347413.58	633.99	LIPT	NVA
5033	39°55'22.74353"N	88°34'08.17001"W	579.05	1185941.69	918170.34	684.40	LIPT	NVA
5034	41°01'12.80592"N	89°23'40.47459"W	408.14	1587366.45	691405.90	516.27	LIPT	NVA
5035	40°44'40.34994"N	88°37'27.25999"W	603.07	1485279.83	903643.05	708.33	LIPT	NVA
5036	40°39'11.53484"N	88°53'56.83690"W	635.80	1452375.06	827261.36	741.11	LIPT	NVA
5037	40°46'30.88601"N	90°01'02.98765"W	564.45	1500810.72	517790.57	673.24	LIPT	NVA
5038	41°00'33.32337"N	90°40'08.54394"W	552.19	1590215.19	339597.85	660.47	LIPT	NVA
5039	40°40'40.54687"N	91°04'30.86783"W	438.05	1472744.76	223694.23	547.41	LIPT	NVA
5039A	40°43'41.72868"N	91°03'56.69833"W	430.35	1491001.53	226898.09	539.66	LIPT	NVA
5040	41°06'32.19662"N	89°58'21.82321"W	689.25	1622161.07	532470.69	797.29	LIPT	NVA
5041	40°25'22.41663"N	89°25'22.14903"W	513.63	1369835.57	680912.29	620.80	LIPT	NVA
5042	40°06'21.59706"N	88°33'31.23688"W	594.17	1252602.63	921216.34	698.99	LIPT	NVA
5043	40°41'50.27363"N	90°00'43.65667"W	620.44	1472382.13	518734.68	729.12	LIPT	NVA
5044	41°12'08.13676"N	90°26'37.15596"W	694.80	1658957.44	403511.91	802.55	LIPT	NVA
5045	39°53'18.67250"N	88°43'37.21970"W	622.53	1173543.58	873781.09	728.34	LIPT	NVA
5046	40°20'25.64356"N	89°18'42.61716"W	521.43	1339441.35	711480.14	628.34	LIPT	NVA
5046A	40°20'13.96901"N	89°20'00.00554"W	533.15	1338326.91	705474.21	640.13	LIPT	NVA
5047	40°50'16.29909"N	89°53'04.87291"W	593.66	1522945.75	554979.77	702.16	LIPT	NVA
5047A	40°48'23.38881"N	89°53'53.28837"W	528.00	1511584.51	551054.21	636.58	LIPT	NVA

PT	NAD83(2011)		ELLIPSOID	ILLINOIS EAST ZONE		NAVD88	CODE	NOTE
NAME	LATITUDE	LONGITUDE	HEIGHT	STATE PLANE		ELEVATION		
			US FT	NORTHING	EASTING	GEOID 18		
				US FT	US FT	US FT		
5048	40°59'22.33413"N	89°27'39.07477"W	540.27	1576415.07	672972.20	648.40	LIPT	NVA
5049	40°15'12.64548"N	88°38'45.78320"W	625.64	1306414.13	896965.07	730.32	LIPT	NVA
5050	40°30'15.75938"N	88°57'05.34834"W	692.90	1398252.85	812351.28	798.05	LIPT	NVA
5051	40°33'38.80025"N	90°00'40.26283"W	543.29	1422637.18	518047.37	651.69	LIPT	NVA
5052	40°46'10.64976"N	89°27'28.30978"W	694.47	1496280.95	672768.42	801.83	LIPT	NVA
5053	40°59'49.04856"N	90°05'54.05292"W	687.70	1582033.58	497025.67	795.76	LIPT	NVA
5054	40°36'51.86445"N	89°37'28.44489"W	358.48	1440365.37	625761.16	466.58	LIPT	NVA
5055	40°20'29.48160"N	88°45'34.50593"W	663.65	1338608.01	865429.91	768.39	LIPT	NVA
5055A	40°21'25.82974"N	88°47'34.45289"W	691.54	1344356.63	856171.74	796.32	LIPT	NVA
5056	40°28'24.11419"N	90°40'22.45490"W	546.21	1394981.31	333324.71	655.38	LIPT	NVA
5057	41°13'15.59495"N	89°39'34.94443"W	641.36	1661521.65	619356.88	749.96	LIPT	NVA
5058	41°15'34.96952"N	90°36'33.76884"W	646.02	1681043.70	358451.26	753.93	LIPT	NVA
5058A	41°12'05.45542"N	90°35'13.66245"W	680.48	1659677.07	364019.70	788.42	LIPT	NVA
5059	40°30'47.02633"N	89°47'14.92864"W	375.59	1404148.19	579920.51	483.83	LIPT	NVA
5059A	40°34'09.94975"N	89°45'56.11289"W	496.09	1424584.92	586341.95	604.35	LIPT	NVA
5060	40°47'11.47963"N	89°21'56.21858"W	696.80	1502123.09	698392.77	803.80	LIPT	NVA
5061	40°20'29.97312"N	88°31'32.17545"W	684.69	1338429.85	930653.54	789.58	LIPT	NVA
5062	40°59'15.71017"N	89°39'03.75436"W	633.33	1576479.69	620454.92	741.64	LIPT	NVA
5063	40°25'27.39573"N	90°47'49.66619"W	585.45	1378036.50	298259.61	694.48	LIPT	NVA
5064	40°37'13.47217"N	90°27'57.65683"W	558.15	1447097.87	392187.48	667.27	LIPT	NVA
5065	40°52'26.73401"N	90°21'24.95917"W	661.22	1538814.22	424604.09	769.82	LIPT	NVA
5066	40°07'29.12342"N	88°51'19.80714"W	624.01	1259784.60	838227.54	729.20	LIPT	NVA
5066A	40°09'48.21601"N	88°47'30.87129"W	626.54	1273761.45	856083.86	731.48	LIPT	NVA
5067	41°06'46.97106"N	89°11'55.72689"W	550.36	1620590.58	745761.96	658.31	LIPT	NVA
5068	40°18'46.72408"N	88°58'58.24095"W	634.72	1328587.70	803118.33	740.17	LIPT	NVA
5069	40°33'31.46383"N	90°45'06.50307"W	643.29	1426680.63	312223.69	752.52	LIPT	NVA
5069A	40°33'54.84472"N	90°40'24.42679"W	613.00	1428458.74	334061.04	722.26	LIPT	NVA

PT	NAD83(2011)		ELLIPSOID	ILLINOIS EAST ZONE		NAVD88	CODE	NOTE
NAME	LATITUDE	LONGITUDE	HEIGHT	STATE PLANE		ELEVATION		
			US FT	NORTHING	EASTING	GEOID 18		
				US FT	US FT	US FT		
5070	41°17'45.06277"N	90°58'03.71988"W	588.28	1696998.41	260322.49	696.41	LIPT	NVA
5071	40°48'47.22715"N	91°05'06.81687"W	413.76	1522092.50	222469.49	522.92	LIPT	NVA
5072	40°05'51.93640"N	89°05'05.74864"W	544.19	1250409.73	773985.17	650.09	LIPT	NVA
5073	40°36'26.56024"N	88°59'32.40790"W	655.65	1435859.71	801272.11	760.99	LIPT	NVA
5073A	40°39'00.62194"N	88°59'54.06612"W	632.15	1451463.34	799719.49	737.65	LIPT	NVA
5074	40°21'50.69872"N	89°06'51.55831"W	593.30	1347501.26	766616.77	699.21	LIPT	NVA
5075	41°10'53.26693"N	89°23'39.76694"W	408.03	1646114.13	692175.43	516.70	LIPT	NVA
5075A	41°04'11.88576"N	89°25'22.24951"W	359.74	1605587.05	683830.94	468.11	LIPT	NVA
5076	40°20'56.65056"N	90°06'53.58864"W	382.37	1346070.53	487675.06	491.02	LIPT	NVA
5077	40°42'32.80738"N	90°15'58.23878"W	428.57	1478135.26	448379.55	537.77	LIPT	NVA
5078	40°31'28.71454"N	89°28'27.42311"W	549.16	1407085.63	667062.17	656.51	LIPT	NVA
5079	40°44'26.49225"N	89°08'06.62524"W	629.94	1484758.61	762054.49	736.08	LIPT	NVA
5080	40°23'42.33702"N	88°51'49.09063"W	689.85	1358280.80	836541.89	794.80	LIPT	NVA
5081	40°58'57.08628"N	90°23'22.34830"W	676.43	1578533.44	416514.73	784.61	LIPT	NVA
5082	40°53'27.10717"N	90°30'57.50633"W	664.13	1545981.93	380769.26	772.61	LIPT	NVA
5083	41°14'06.12763"N	91°00'15.63238"W	470.92	1675144.66	249570.28	579.23	LIPT	NVA
5084	40°22'01.80254"N	90°45'27.51436"W	555.01	1356924.16	308683.95	663.88	LIPT	NVA
5085	40°51'05.02108"N	89°07'07.70965"W	655.66	1525050.10	766950.79	762.21	LIPT	NVA
5086	40°40'13.13119"N	89°33'42.76450"W	383.33	1460484.97	643450.61	491.20	LIPT	NVA
5087	40°47'55.75331"N	90°09'58.90344"W	523.58	1510226.91	476737.14	632.48	LIPT	NVA
5088	40°44'29.43127"N	91°03'31.34011"W	429.87	1495769.17	229000.69	539.14	LIPT	NVA
5089	41°05'41.80943"N	89°51'52.18648"W	630.53	1616518.51	562208.43	738.79	LIPT	NVA
5090	40°47'56.57228"N	90°32'18.79677"W	601.10	1512683.80	373682.93	709.97	LIPT	NVA
5091	39°47'55.71792"N	88°35'31.27875"W	568.55	1140726.97	911564.56	674.51	LIPT	NVA
5092	40°32'59.16712"N	90°30'13.37169"W	533.65	1421615.75	381086.47	642.65	LIPT	NVA
5093	40°51'28.57546"N	89°40'40.27464"W	616.83	1529314.61	612325.80	724.94	LIPT	NVA
5094	40°01'35.33252"N	88°34'33.26045"W	558.94	1223648.38	916318.12	663.91	LIPT	NVA

PT	NAD83(2011)		ELLIPSOID	ILLINOIS EAST ZONE		NAVD88	CODE	NOTE
NAME	LATITUDE	LONGITUDE	HEIGHT	STATE PLANE		ELEVATION		
			US FT	NORTHING	EASTING	GEOID 18		
				US FT	US FT	US FT		
5095	40°13'25.60259"N	88°42'56.74993"W	631.94	1295658.45	877460.22	736.65	LIPT	NVA
5095A	40°11'52.43005"N	88°43'19.04603"W	596.65	1286237.64	875689.49	701.40	LIPT	NVA
5096	40°19'34.40704"N	90°36'26.02359"W	554.71	1340892.92	350219.05	663.57	LIPT	NVA
5096A	40°19'21.07895"N	90°38'09.14236"W	486.22	1339750.56	342196.40	595.10	LIPT	NVA
5097	41°15'25.35846"N	89°20'26.94828"W	393.37	1673477.68	707238.44	502.04	LIPT	NVA
5098	40°54'20.47658"N	89°01'59.98454"W	641.76	1544630.56	790756.70	748.25	LIPT	NVA
5098A	40°52'55.84580"N	89°01'49.37917"W	631.32	1536059.02	791502.81	737.73	LIPT	NVA
5099	40°44'33.90632"N	88°42'58.22145"W	606.71	1484725.49	878166.26	712.08	LIPT	NVA
5099A	40°33'41.39190"N	88°59'20.60616"W	727.96	1419137.99	802057.90	833.18	LIPT	NVA
5100	40°33'23.61425"N	90°51'58.63253"W	620.25	1426780.55	280386.76	729.50	LIPT	NVA
5101	40°13'40.31864"N	90°21'35.22902"W	601.98	1303381.46	418398.94	710.42	LIPT	NVA
5102	40°55'55.41314"N	90°56'19.66557"W	458.27	1564193.22	264299.38	567.07	LIPT	NVA
5103	40°43'56.97818"N	90°40'13.79753"W	640.73	1489380.29	336501.77	749.74	LIPT	NVA
5104	40°34'01.26937"N	88°36'52.20798"W	643.94	1420596.25	906134.20	749.18	LIPT	NVA
5105	40°38'37.33003"N	88°47'35.61890"W	628.34	1448742.20	856625.64	733.53	LIPT	NVA
5106	40°26'03.64100"N	89°13'04.51664"W	571.86	1373370.04	738003.12	678.21	LIPT	NVA
5106A	40°23'52.74701"N	89°17'54.57619"W	530.27	1360358.72	715428.89	637.10	LIPT	NVA
5107	41°20'05.72228"N	90°51'16.51429"W	625.63	1710312.88	291822.60	733.58	LIPT	NVA
5108	40°41'47.37806"N	90°49'30.83442"W	652.47	1477442.88	293241.19	761.57	LIPT	NVA
5109	40°40'32.54152"N	89°40'39.25350"W	535.70	1462919.05	611386.93	643.95	LIPT	NVA
5110	40°38'10.02000"N	90°09'34.32481"W	631.15	1450906.31	477394.56	739.97	LIPT	NVA
5111	40°51'36.95218"N	90°12'11.68870"W	577.02	1532830.28	467002.15	685.66	LIPT	NVA
5112	40°10'47.74522"N	90°13'52.43000"W	351.76	1285122.56	453924.44	459.97	LIPT	NVA
5112A	40°16'30.49933"N	90°14'02.82109"W	502.46	1319827.01	453861.30	610.84	LIPT	NVA
5113	40°32'53.43644"N	89°36'09.52521"W	525.18	1416147.40	631499.82	633.05	LIPT	NVA
5113A	40°33'11.48577"N	89°35'33.16913"W	531.83	1417933.75	634332.55	639.67	LIPT	NVA
5114	40°20'16.82424"N	90°11'24.98384"W	377.79	1342472.13	466576.39	486.38	LIPT	NVA

PT	NAD83(2011)		ELLIPSOID	ILLINOIS EAST ZONE		NAVD88	CODE	NOTE
NAME	LATITUDE	LONGITUDE	HEIGHT	STATE PLANE		ELEVATION		
			US FT	NORTHING	EASTING	GEOID 18		
				US FT	US FT	US FT		
5115	41°19'50.80757"N	90°40'38.78874"W	700.42	1707437.99	340436.11	808.27	LIPT	NVA
5116	41°06'04.64416"N	90°55'46.18031"W	434.40	1625783.39	268704.89	542.92	LIPT	NVA
5117	40°26'30.29066"N	88°59'26.21845"W	748.61	1375514.67	801299.68	853.87	LIPT	NVA
5118	40°24'27.07767"N	90°53'51.67034"W	523.05	1372728.83	270081.58	632.11	LIPT	NVA
5119	40°25'04.77258"N	90°29'49.26593"W	537.72	1373557.44	381769.78	646.51	LIPT	NVA
5120	40°37'34.31617"N	89°27'46.71055"W	610.64	1444044.48	670680.73	717.90	LIPT	NVA
5121	40°18'54.58648"N	89°10'14.90183"W	605.07	1329823.43	750707.83	711.36	LIPT	NVA
5122	40°26'32.23852"N	88°31'00.82294"W	750.90	1375084.15	933157.34	855.83	LIPT	NVA
5123	41°13'45.97580"N	89°51'31.55780"W	678.51	1665494.91	564646.85	786.82	LIPT	NVA
5124	40°17'32.23383"N	90°54'39.97879"W	533.94	1330850.89	265120.12	642.52	LIPT	NVA
5125	40°22'16.35736"N	89°32'50.37676"W	496.71	1351458.53	645987.12	604.11	LIPT	NVA
5126	41°00'32.01699"N	89°08'03.81619"W	578.92	1582472.43	763164.81	686.24	LIPT	NVA
5127	40°34'34.21293"N	90°16'35.14372"W	527.22	1429760.27	444466.89	636.26	LIPT	NVA
5128	40°37'46.23953"N	89°16'41.30006"W	638.80	1444646.29	722001.86	745.19	LIPT	NVA
5128A	40°37'12.86348"N	89°15'54.80162"W	638.83	1441230.36	725551.27	745.17	LIPT	NVA
5129	40°55'00.72042"N	89°17'57.15131"W	592.26	1549403.17	717306.16	699.62	LIPT	NVA
5130	40°48'50.91211"N	90°24'05.19874"W	608.04	1517258.12	411777.50	716.94	LIPT	NVA
5131	40°37'36.74123"N	90°18'19.04597"W	440.90	1448411.83	436862.68	550.08	LIPT	NVA
5132	40°24'04.55297"N	90°09'43.61270"W	460.14	1365355.45	474903.47	568.87	LIPT	NVA
5133	40°41'50.83186"N	89°53'27.03425"W	647.95	1471819.10	552368.02	756.39	LIPT	NVA
5134	41°04'24.80460"N	90°13'46.03203"W	698.77	1610702.80	461439.46	806.59	LIPT	NVA
5135	40°24'19.72894"N	89°38'52.97238"W	426.37	1364344.86	618107.47	534.00	LIPT	NVA
5136	41°01'41.57113"N	90°16'51.75687"W	726.85	1594494.81	446844.93	834.79	LIPT	NVA
5137	40°29'15.06376"N	90°11'25.61367"W	577.92	1396945.09	467672.63	686.75	LIPT	NVA
5138	40°29'15.45012"N	90°01'49.40528"W	524.65	1396087.27	512197.45	633.20	LIPT	NVA
5139	40°45'46.03843"N	89°38'02.37274"W	621.77	1494464.50	623944.79	729.81	LIPT	NVA
5139A	40°46'33.01905"N	89°42'30.36593"W	596.40	1499533.69	603396.87	704.62	LIPT	NVA

PT	NAD83(2011)		ELLIPSOID	ILLINOIS EAST ZONE		NAVD88	CODE	NOTE
NAME	LATITUDE	LONGITUDE	HEIGHT	STATE PLANE		ELEVATION		
			US FT	NORTHING	EASTING	GEOID 18		
				US FT	US FT	US FT		
5140	41°10'33.64093"N	89°12'23.68598"W	577.94	1643553.14	743851.93	686.07	LIPT	NVA
5140A	41°10'36.09567"N	89°12'44.74370"W	576.89	1643817.80	742244.14	685.05	LIPT	NVA
5141	40°43'45.39486"N	90°24'19.27185"W	540.99	1486361.84	409964.74	650.14	LIPT	NVA
5142	40°31'45.33042"N	89°21'27.69997"W	531.74	1408369.14	699494.59	638.61	LIPT	NVA
5142A	40°09'22.95157"N	88°30'59.97899"W	601.19	1270926.98	933007.04	706.06	LIPT	NVA
5143	40°09'29.31575"N	88°58'42.58727"W	611.64	1272172.87	803920.68	717.18	LIPT	NVA
5144	41°01'16.29696"N	89°55'37.30841"W	602.93	1589954.48	544480.24	711.15	LIPT	NVA
5145	40°11'08.13073"N	88°38'33.48865"W	620.01	1281667.81	897832.05	724.73	LIPT	NVA
5145A	40°11'07.99357"N	88°40'05.41453"W	620.27	1281679.81	890697.61	724.99	LIPT	NVA
5146	40°55'18.14126"N	89°55'37.42480"W	615.94	1553705.46	543810.02	724.25	LIPT	NVA
5147	40°42'13.31434"N	89°24'37.39839"W	630.47	1472096.73	685624.08	737.45	LIPT	NVA
5147A	40°43'13.12207"N	89°24'26.95106"W	683.15	1478139.61	686502.74	790.13	LIPT	NVA
5148	41°10'22.64949"N	90°59'44.24478"W	475.33	1652449.71	251275.76	583.79	LIPT	NVA
5149	40°44'45.78867"N	90°54'26.57151"W	567.45	1496158.07	270988.37	676.49	LIPT	NVA
5150	41°19'17.26564"N	90°30'08.40655"W	690.46	1702791.23	388447.54	798.13	LIPT	NVA
5151	40°22'50.08935"N	89°27'07.92306"W	573.98	1354522.56	672536.46	681.17	LIPT	NVA
5152	40°25'13.40424"N	88°54'07.26853"W	781.38	1367562.89	825910.18	886.41	LIPT	NVA
5153	41°03'46.03975"N	89°46'04.15809"W	597.38	1604347.89	588663.28	705.74	LIPT	NVA
5153A	41°03'55.96995"N	89°48'39.41319"W	592.58	1605551.52	576787.04	700.91	LIPT	NVA
5154	40°34'02.38380"N	88°54'04.34746"W	673.82	1421092.85	826480.64	778.89	LIPT	NVA
5155	40°56'07.74166"N	90°09'39.85744"W	493.01	1559990.85	479241.71	601.29	LIPT	NVA
5156	40°27'01.58930"N	88°37'53.58782"W	779.39	1378141.37	901253.70	884.39	LIPT	NVA
5157	41°06'09.45342"N	89°04'01.59188"W	573.67	1616460.40	782022.15	681.10	LIPT	NVA
5158	40°33'37.49917"N	90°10'55.36275"W	568.08	1423455.91	470567.19	676.83	LIPT	NVA
5159	40°00'42.06101"N	88°43'38.08495"W	583.08	1218409.30	873911.71	688.25	LIPT	NVA
5160	40°56'31.08213"N	90°50'59.13092"W	610.58	1567082.56	289008.78	719.16	LIPT	NVA
5161	39°56'36.69573"N	88°27'32.94491"W	573.95	1193362.36	948972.30	679.07	LIPT	NVA

PT	NAD83(2011)		ELLIPSOID	ILLINOIS EAST ZONE		NAVD88	CODE	NOTE
NAME	LATITUDE	LONGITUDE	HEIGHT	STATE PLANE		ELEVATION		
			US FT	NORTHING	EASTING	GEOID 18		
				US FT	US FT	US FT		
5162	40°14'23.72871"N	89°07'32.33417"W	619.14	1302298.21	763055.82	725.28	LIPT	NVA
5163	40°54'03.77958"N	89°40'06.23820"W	592.96	1544982.42	615180.80	701.10	LIPT	NVA
5164	41°17'45.00559"N	90°59'14.37882"W	584.19	1697157.03	254928.16	692.34	LIPT	NVA
5165	40°06'24.00277"N	88°30'02.41600"W	612.93	1252810.25	937442.33	717.80	LIPT	NVA
5166	40°17'36.94297"N	90°03'59.09622"W	358.26	1325591.48	500790.20	466.67	LIPT	NVA
5167	40°51'46.35394"N	90°57'38.17267"W	440.47	1539164.08	257515.49	549.41	LIPT	NVA
5168	40°47'09.32920"N	90°59'41.80388"W	467.95	1511411.11	247162.93	577.06	LIPT	NVA
5169	41°06'27.42955"N	90°23'54.36869"W	677.77	1624173.16	415138.01	785.60	LIPT	NVA
5170	40°25'37.77414"N	89°58'50.38362"W	366.14	1373795.65	525619.34	474.67	LIPT	NVA
5171	40°43'22.58990"N	89°16'09.93868"W	627.33	1478659.77	724782.44	733.75	LIPT	NVA
5171A	40°43'10.29720"N	89°19'04.87802"W	649.46	1477563.02	711298.88	756.04	LIPT	NVA
5172	40°29'44.75045"N	89°05'37.62076"W	683.25	1395424.02	772753.02	788.86	LIPT	NVA
5173	40°38'21.59445"N	88°40'12.01970"W	638.36	1446994.93	890814.73	743.61	LIPT	NVA
5174	40°07'37.69298"N	88°38'28.98255"W	593.59	1260372.18	898107.94	698.36	LIPT	NVA
5175	41°11'51.45380"N	90°43'27.79422"W	632.28	1659268.98	326205.10	740.40	LIPT	NVA
6001	40°00'49.82265"N	88°43'37.40619"W	584.26	1219194.46	873967.99	689.42	LIPT	VVA
6002	40°30'01.33986"N	90°23'39.50238"W	537.99	1402888.00	411073.00	646.96	LIPT	VVA
6003	40°47'28.43427"N	90°46'42.74259"W	626.68	1511598.85	307152.35	735.51	LIPT	VVA
6004	40°30'53.68640"N	89°54'25.71245"W	352.92	1405393.50	546658.88	461.27	LIPT	VVA
6005	40°43'57.47994"N	89°01'06.41796"W	626.61	1481548.56	794376.92	732.51	LIPT	VVA
6006	40°27'08.88964"N	88°43'00.57644"W	760.77	1378971.74	877524.36	865.73	LIPT	VVA
6007	40°13'21.73536"N	90°21'13.86957"W	561.80	1301462.98	420012.94	670.23	LIPT	VVA
6008	39°48'23.55648"N	88°28'18.58886"W	558.13	1143468.88	945339.98	663.71	LIPT	VVA
6009	41°05'37.56621"N	89°51'06.47740"W	629.75	1616027.81	565700.79	738.03	LIPT	VVA
6010	40°47'54.51355"N	89°12'18.40935"W	617.89	1505995.80	742882.60	724.44	LIPT	VVA
6011	40°57'19.78306"N	90°23'45.76552"W	663.00	1568727.31	414486.03	771.27	LIPT	VVA
6012	40°21'10.19110"N	90°19'39.69574"W	545.26	1348706.88	428386.06	653.86	LIPT	VVA

PT	NAD83(2011)		ELLIPSOID	ILLINOIS EAST ZONE		NAVD88	CODE	NOTE
NAME	LATITUDE	LONGITUDE	HEIGHT	STATE PLANE		ELEVATION		
			US FT	NORTHING	EASTING	GEOID 18		
				US FT	US FT	US FT		
6013	40°55'24.81502"N	89°45'19.74762"W	632.70	1553563.25	591239.18	740.92	LIPT	VVA
6013A	40°55'48.78447"N	89°44'58.05352"W	607.24	1555962.15	592943.84	715.47	LIPT	VVA
6014	40°12'37.52884"N	88°30'05.70254"W	622.58	1290608.17	937258.55	727.55	LIPT	VVA
6015	41°11'48.33804"N	90°52'54.06041"W	577.08	1660183.51	282902.47	685.36	LIPT	VVA
6016	40°22'00.74899"N	90°25'52.60421"W	604.70	1354491.54	399634.20	713.36	LIPT	VVA
6017	40°36'55.52705"N	89°48'12.13511"W	509.17	1441514.89	576124.28	617.48	LIPT	VVA
6018	40°54'59.51566"N	89°17'29.68071"W	578.08	1549258.04	719413.80	685.42	LIPT	VVA
6019	40°26'04.74086"N	89°18'36.21927"W	531.49	1373751.59	712354.64	638.31	LIPT	VVA
6020	40°39'58.52494"N	90°25'47.31112"W	530.89	1463561.17	402638.10	640.07	LIPT	VVA
6020A	40°39'42.35528"N	90°26'12.45278"W	527.35	1461970.94	400661.33	636.53	LIPT	VVA
6021	41°03'44.76181"N	90°33'29.23516"W	583.52	1608792.05	370707.83	691.61	LIPT	VVA
6022	41°07'10.28720"N	90°09'47.90126"W	653.42	1627062.22	480030.70	761.20	LIPT	VVA
6023	40°09'29.41209"N	88°58'07.34418"W	596.75	1272162.90	806657.10	702.27	LIPT	VVA
6024	40°29'41.38686"N	89°39'09.13688"W	403.26	1396915.35	617343.29	511.18	LIPT	VVA
6025	41°00'27.49405"N	90°44'47.93574"W	508.61	1590208.03	318159.84	616.98	LIPT	VVA
6025A	41°02'29.62781"N	90°45'54.07081"W	476.26	1602711.03	313433.54	584.62	LIPT	VVA
6026	40°34'05.04744"N	88°32'39.40429"W	662.66	1420924.09	925644.92	767.81	LIPT	VVA
6027	41°12'38.20455"N	90°45'05.57530"W	612.74	1664207.93	318861.03	720.87	LIPT	VVA
6028	40°34'53.39259"N	89°07'42.33587"W	657.46	1426743.25	763399.70	763.19	LIPT	VVA
6029	40°54'08.18247"N	90°37'58.15480"W	658.47	1550967.09	348569.02	766.90	LIPT	VVA
6030	41°15'55.29148"N	89°13'08.87884"W	577.16	1676142.68	740727.67	685.52	LIPT	VVA
6031	41°05'04.08596"N	89°39'20.93709"W	757.81	1611758.74	619671.57	866.24	LIPT	VVA
6032	40°22'54.18807"N	90°39'25.28176"W	530.75	1361473.04	336865.01	639.73	LIPT	VVA
6033	39°55'43.94531"N	88°34'33.26228"W	580.63	1188092.27	916221.26	685.97	LIPT	VVA
6034	41°01'07.04321"N	89°24'30.91251"W	394.56	1586830.53	687532.52	502.72	LIPT	VVA
6035	40°44'40.67296"N	88°37'42.19622"W	594.99	1485316.36	902493.52	700.25	LIPT	VVA
6036	40°39'35.98036"N	88°55'43.99314"W	631.70	1454903.49	819019.04	737.10	LIPT	VVA

PT	NAD83(2011)		ELLIPSOID	ILLINOIS EAST ZONE		NAVD88	CODE	NOTE
NAME	LATITUDE	LONGITUDE	HEIGHT	STATE PLANE		ELEVATION		
			US FT	NORTHING	EASTING	GEOID 18		
				US FT	US FT	US FT		
6037	40°46'34.81459"N	90°01'02.54948"W	560.93	1501207.68	517831.92	669.72	LIPT	VVA
6037A	40°47'18.49952"N	89°57'56.22545"W	533.53	1505357.91	532249.51	642.23	LIPT	VVA
6038	40°57'42.18413"N	90°33'18.65419"W	637.23	1572072.52	370584.08	745.49	LIPT	VVA
6039	40°40'39.81653"N	91°04'22.42415"W	438.28	1472650.53	224342.59	547.64	LIPT	VVA
6040	41°06'25.32223"N	89°58'21.09477"W	686.18	1621464.24	532513.36	794.23	LIPT	VVA
6041	40°25'14.30099"N	89°25'05.27693"W	530.12	1368998.22	682207.11	637.27	LIPT	VVA
6042	40°04'10.04254"N	88°33'14.17017"W	566.91	1239287.34	922509.43	671.77	LIPT	VVA
6043	40°41'45.22475"N	90°00'35.16976"W	610.09	1471858.66	519378.67	718.76	LIPT	VVA
6044	41°12'12.01298"N	90°26'55.95310"W	690.64	1659384.70	402084.49	798.39	LIPT	VVA
6045	39°53'34.42832"N	88°43'55.26309"W	634.43	1175144.09	872381.76	740.22	LIPT	VVA
6046	40°20'14.73440"N	89°20'00.35229"W	530.64	1338404.66	705448.23	637.62	LIPT	VVA
6046A	40°22'18.42063"N	89°32'35.78432"W	509.01	1351651.85	647119.44	616.40	LIPT	VVA
6047	40°50'03.96322"N	89°53'01.96809"W	579.43	1521693.31	555180.95	687.93	LIPT	VVA
6048	40°59'13.77846"N	89°27'37.39659"W	525.83	1575547.51	673089.72	633.95	LIPT	VVA
6049	40°15'00.99397"N	88°38'20.11953"W	617.67	1305228.14	898950.79	722.36	LIPT	VVA
6050	40°29'43.09977"N	88°57'49.63495"W	691.87	1394971.98	808906.69	797.05	LIPT	VVA
6051	40°33'40.17174"N	90°00'34.48989"W	541.55	1422767.50	518495.60	649.95	LIPT	VVA
6052	40°46'09.00209"N	89°27'54.73543"W	678.76	1496140.35	670733.01	786.16	LIPT	VVA
6053	40°59'34.08040"N	90°05'08.13497"W	669.96	1580447.70	500516.38	778.03	LIPT	VVA
6054	40°37'25.06090"N	89°37'24.62118"W	353.17	1443720.62	626105.32	461.26	LIPT	VVA
6055	40°20'30.62880"N	88°44'52.82858"W	668.65	1338708.77	868657.63	773.37	LIPT	VVA
6055A	40°21'25.16065"N	88°47'34.87586"W	689.69	1344289.09	856138.65	794.47	LIPT	VVA
6056	40°28'19.81112"N	90°40'10.47083"W	595.81	1394521.25	334239.44	704.97	LIPT	VVA
6057	41°10'39.75065"N	89°38'50.76060"W	700.06	1645696.94	622495.08	808.63	LIPT	VVA
6058	41°16'00.53797"N	90°36'23.44325"W	677.02	1683611.10	359307.69	784.92	LIPT	VVA
6058A	41°12'02.39213"N	90°34'54.54872"W	684.69	1659329.17	365472.89	792.62	LIPT	VVA
6059	40°28'41.13881"N	89°47'50.83268"W	402.78	1391454.01	576935.84	510.98	LIPT	VVA

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NAME	LATITUDE	LONGITUDE	HEIGHT	STATE PLANE		ELEVATION		
			US FT	NORTHING	EASTING	GEOID 18		
				US FT	US FT	US FT		
6059A	40°33'40.48537"N	89°46'27.42782"W	503.44	1421642.45	583876.45	611.71	LIPT	VVA
6060	40°47'05.23060"N	89°22'01.21237"W	694.48	1501495.19	698001.18	801.48	LIPT	VVA
6060A	40°42'23.15671"N	89°24'30.61204"W	618.50	1473086.40	686158.95	725.47	LIPT	VVA
6061	40°20'22.34361"N	88°31'41.07064"W	686.46	1337659.30	929963.07	791.35	LIPT	VVA
6061A	40°26'53.07522"N	88°37'45.51451"W	770.72	1377277.68	901874.94	875.71	LIPT	VVA
6062	40°59'11.51241"N	89°39'06.29573"W	640.74	1576057.78	620253.61	749.05	LIPT	VVA
6063	40°25'30.45436"N	90°47'36.10294"W	584.95	1378316.82	299317.34	693.99	LIPT	VVA
6064	40°37'16.81607"N	90°27'18.21374"W	565.08	1447362.74	395237.51	674.21	LIPT	VVA
6065	40°54'46.46380"N	90°16'59.44955"W	665.12	1552493.54	445317.46	773.51	LIPT	VVA
6066	40°09'48.01418"N	88°47'31.03737"W	626.04	1273741.09	856070.86	730.98	LIPT	VVA
6066A	40°11'01.73634"N	88°44'40.46475"W	627.07	1281136.31	869347.94	731.87	LIPT	VVA
6067	41°06'47.16535"N	89°11'55.96719"W	550.05	1620610.42	745743.76	658.01	LIPT	VVA
6068	40°18'44.52006"N	89°00'09.74114"W	599.78	1328405.91	797577.85	705.31	LIPT	VVA
6069	40°33'28.38082"N	90°40'23.32612"W	602.36	1425778.05	334074.83	711.61	LIPT	VVA
6069A	40°33'55.42823"N	90°40'04.85920"W	615.19	1428477.71	335572.94	724.44	LIPT	VVA
6070	40°56'18.70531"N	90°56'54.16275"W	443.57	1566629.94	261721.79	552.37	LIPT	VVA
6071	40°47'13.58300"N	90°59'40.72736"W	458.50	1511839.15	247258.82	567.61	LIPT	VVA
6072	40°05'51.27912"N	89°05'05.55045"W	543.85	1250343.09	774000.01	649.75	LIPT	VVA
6073	40°36'12.21307"N	88°59'31.49512"W	664.44	1434407.25	801331.65	769.77	LIPT	VVA
6073A	40°39'00.74256"N	88°59'53.59195"W	630.54	1451475.27	799756.14	736.04	LIPT	VVA
6074	40°22'07.97236"N	89°06'51.73382"W	592.66	1349249.40	766618.62	698.56	LIPT	VVA
6075	41°10'54.09977"N	89°23'45.43217"W	412.22	1646203.71	691743.26	520.89	LIPT	VVA
6075A	41°04'10.92224"N	89°25'40.46801"W	383.80	1605507.00	682434.27	492.16	LIPT	VVA
6076	40°21'08.96490"N	90°06'58.30762"W	443.57	1347324.13	487334.79	552.23	LIPT	VVA
6077	40°42'35.12036"N	90°16'02.88615"W	431.36	1478377.23	448026.78	540.56	LIPT	VVA
6078	40°31'43.45222"N	89°29'22.95984"W	549.26	1408632.97	662792.92	656.66	LIPT	VVA
6079	40°44'25.19915"N	89°08'00.09936"W	625.73	1484623.16	762555.62	731.86	LIPT	VVA

PT	NAD83(2011)		ELLIPSOID	ILLINOIS EAST ZONE		NAVD88	CODE	NOTE
NAME	LATITUDE	LONGITUDE	HEIGHT	STATE PLANE		ELEVATION		
			US FT	NORTHING	EASTING	GEOID 18		
				US FT	US FT	US FT		
6079A	40°43'09.21345"N	89°19'14.22853"W	638.02	1477461.43	710577.66	744.61	LIPT	VVA
6080	40°23'44.95499"N	88°52'02.12238"W	693.57	1358551.79	835535.21	798.53	LIPT	VVA
6081	40°59'19.63096"N	90°23'41.55155"W	667.94	1580850.02	415095.69	776.11	LIPT	VVA
6082	40°53'14.53752"N	90°30'56.32325"W	665.43	1544707.43	380828.40	773.93	LIPT	VVA
6083	41°12'56.95574"N	91°00'15.57418"W	468.90	1668142.65	249359.46	577.26	LIPT	VVA
6084	40°20'46.61922"N	90°45'27.16814"W	527.72	1349314.19	308502.15	636.54	LIPT	VVA
6085	40°50'47.27929"N	89°07'09.22869"W	660.00	1523255.60	766817.95	766.52	LIPT	VVA
6086	40°40'31.30578"N	89°32'50.82633"W	421.94	1462268.69	647478.24	529.73	LIPT	VVA
6087	40°47'49.77240"N	90°09'53.11605"W	519.25	1509612.28	477169.62	628.15	LIPT	VVA
6088	40°44'39.58042"N	91°03'24.53902"W	434.13	1496780.19	229556.17	543.40	LIPT	VVA
6088A	40°46'13.28368"N	91°02'14.00678"W	431.64	1506096.68	235278.35	540.84	LIPT	VVA
6089	41°01'11.37830"N	89°55'37.43245"W	588.23	1589456.83	544461.64	696.46	LIPT	VVA
6090	40°48'00.20225"N	90°32'16.51745"W	602.25	1513046.79	373867.48	711.11	LIPT	VVA
6091	39°47'55.34357"N	88°35'21.83687"W	566.27	1140686.97	912301.38	672.22	LIPT	VVA
6092	40°32'54.17661"N	90°29'44.95415"W	515.64	1421056.71	383267.96	624.64	LIPT	VVA
6093	40°51'56.36233"N	89°40'29.12852"W	600.67	1532113.71	613225.37	708.78	LIPT	VVA
6094	40°02'21.38090"N	88°34'22.77113"W	563.75	1228305.75	917146.64	668.68	LIPT	VVA
6095	40°11'52.87673"N	88°43'18.92893"W	597.93	1286282.80	875698.78	702.68	LIPT	VVA
6095A	40°11'08.80086"N	88°38'35.64375"W	615.96	1281736.21	897665.03	720.67	LIPT	VVA
6096	40°19'31.91060"N	90°36'19.39025"W	554.87	1340627.06	350726.38	663.73	LIPT	VVA
6096A	40°19'21.22013"N	90°39'05.32630"W	525.98	1339878.48	337844.54	634.86	LIPT	VVA
6097	41°14'44.20860"N	89°20'27.12353"W	410.78	1669312.97	707176.76	519.45	LIPT	VVA
6098	40°54'41.39259"N	89°01'43.00877"W	634.53	1546736.98	792076.99	741.02	LIPT	VVA
6099	40°44'36.98596"N	88°43'00.72850"W	605.84	1485037.99	877974.65	711.21	LIPT	VVA
6100	40°33'09.82274"N	90°52'07.83745"W	609.35	1425405.12	279635.98	718.60	LIPT	VVA
6101	40°24'19.05653"N	90°09'05.69065"W	479.40	1366762.72	477867.70	588.14	LIPT	VVA
6102	40°51'44.10048"N	90°57'42.14767"W	440.17	1538945.16	257203.18	549.11	LIPT	VVA

PT	NAD83(2011)		ELLIPSOID	ILLINOIS EAST ZONE		NAVD88	CODE	NOTE
NAME	LATITUDE	LONGITUDE	HEIGHT	STATE PLANE		ELEVATION		
			US FT	NORTHING	EASTING	GEOID 18		
				US FT	US FT	US FT		
6103	40°44'13.49100"N	90°39'48.68831"W	632.56	1491000.20	338479.38	741.56	LIPT	VVA
6104	40°34'10.83923"N	88°36'47.56898"W	650.55	1421563.56	906495.29	755.79	LIPT	VVA
6105	40°38'54.05166"N	88°46'35.39616"W	634.34	1450410.59	861276.49	739.57	LIPT	VVA
6106	40°25'51.89276"N	89°13'14.33596"W	562.34	1372188.77	737231.88	668.70	LIPT	VVA
6107	41°18'55.99293"N	90°48'05.31958"W	666.63	1702834.89	306208.70	774.59	LIPT	VVA
6108	40°41'44.37128"N	90°49'19.51171"W	647.75	1477113.81	294104.82	756.85	LIPT	VVA
6109	40°41'59.83721"N	89°41'42.48809"W	590.62	1471828.77	606651.50	698.89	LIPT	VVA
6109A	40°46'09.84214"N	89°42'48.11144"W	535.02	1497209.49	601994.69	643.26	LIPT	VVA
6110	40°38'11.77844"N	90°09'35.14679"W	628.71	1451085.59	477334.88	737.53	LIPT	VVA
6111	40°51'40.13710"N	90°12'06.89863"W	575.42	1533144.77	467377.11	684.06	LIPT	VVA
6112	40°10'52.22337"N	90°13'50.43584"W	348.30	1285572.44	454088.92	456.51	LIPT	VVA
6112A	40°16'30.53994"N	90°14'02.41712"W	501.77	1319830.45	453892.70	610.15	LIPT	VVA
6113	40°32'16.35074"N	89°35'04.84752"W	523.56	1412322.86	636439.53	631.33	LIPT	VVA
6113A	40°32'59.52754"N	89°35'32.29435"W	534.97	1416722.59	634382.78	642.79	LIPT	VVA
6114	40°20'17.37881"N	90°11'26.54484"W	375.91	1342530.80	466456.68	484.50	LIPT	VVA
6115	41°19'56.39628"N	90°40'37.84593"W	695.25	1708001.75	340523.33	803.10	LIPT	VVA
6116	41°05'59.19428"N	90°55'06.99958"W	464.31	1625142.51	271688.48	572.81	LIPT	VVA
6117	40°28'00.06673"N	88°59'12.64873"W	719.37	1384591.96	802416.11	824.62	LIPT	VVA
6118	40°17'29.75913"N	90°54'34.82620"W	533.30	1330588.80	265512.16	641.87	LIPT	VVA
6119	40°25'06.27490"N	90°29'49.39065"W	539.86	1373709.72	381763.86	648.65	LIPT	VVA
6120	40°38'00.75748"N	89°28'47.30624"W	603.92	1446780.84	666043.19	711.27	LIPT	VVA
6121	40°18'53.44469"N	89°10'31.01118"W	609.87	1329719.72	749458.84	716.19	LIPT	VVA
6122	40°24'47.67545"N	88°31'36.44146"W	672.66	1364508.70	930380.26	777.58	LIPT	VVA
6123	41°13'12.96119"N	89°46'32.01203"W	675.22	1661762.61	587480.00	783.69	LIPT	VVA
6124	41°19'09.13468"N	90°30'44.70008"W	680.89	1702037.63	385657.40	788.56	LIPT	VVA
6125	41°10'11.32230"N	90°59'30.40773"W	469.14	1651270.76	252299.03	577.61	LIPT	VVA
7001	40°04'10.41779"N	88°44'43.37988"W	585.32	1239515.74	868928.78	690.31	LIPT	CAL

PT	NAD83(2011)		ELLIPSOID	ILLINOIS EAST ZONE		NAVD88	CODE	NOTE
NAME	LATITUDE	LONGITUDE	HEIGHT	STATE PLANE		ELEVATION		
			US FT	NORTHING	EASTING	GEOID 18		
				US FT	US FT	US FT		
7001A	40°11'09.57326"N	88°44'10.61965"W	636.87	1281918.72	871667.89	741.65	LIPT	CAL
7002	40°28'50.12847"N	90°18'37.13135"W	519.04	1395146.13	434271.95	628.00	LIPT	CAL
7003	40°47'38.05562"N	90°46'45.81287"W	624.11	1512579.27	306943.34	732.94	LIPT	CAL
7004	40°31'01.38930"N	89°54'41.91960"W	383.22	1406195.44	545421.02	491.58	LIPT	CAL
7005	40°43'59.36122"N	89°00'27.05274"W	620.15	1481715.49	797408.87	726.03	LIPT	CAL
7006	40°26'54.70396"N	88°43'00.35593"W	761.42	1377536.13	877535.17	866.36	LIPT	CAL
7007	40°13'55.53456"N	90°21'43.66594"W	587.59	1304936.32	417779.72	696.04	LIPT	CAL
7008	39°48'15.88201"N	88°27'56.29314"W	562.98	1142689.71	947078.80	668.55	LIPT	CAL
7009	41°05'21.00967"N	89°51'52.19240"W	619.28	1614413.33	562170.99	727.54	LIPT	CAL
7010	40°48'16.98939"N	89°11'47.92769"W	639.46	1508247.25	745249.29	746.02	LIPT	CAL
7011	40°57'42.69318"N	90°20'47.54318"W	665.73	1570727.16	428214.92	773.95	LIPT	CAL
7012	40°21'05.66031"N	90°19'00.13315"W	547.81	1348179.46	431438.98	656.41	LIPT	CAL
7013	40°55'57.42961"N	89°45'13.04071"W	629.31	1556855.77	591807.66	737.55	LIPT	CAL
7013A	40°54'04.23295"N	89°40'40.21373"W	615.95	1545068.25	612572.47	724.09	LIPT	CAL
7014	40°12'43.50681"N	88°30'34.45176"W	620.02	1291217.42	935029.34	724.97	LIPT	CAL
7015	41°14'29.20880"N	90°49'22.77691"W	620.79	1675999.13	299522.80	728.92	LIPT	CAL
7016	40°22'03.35720"N	90°25'17.11503"W	576.41	1354690.48	402387.70	685.07	LIPT	CAL
7017	40°36'52.58087"N	89°48'24.55536"W	456.46	1441232.75	575161.41	564.76	LIPT	CAL
7018	40°55'09.45274"N	89°17'37.63222"W	564.24	1550270.43	718814.39	671.60	LIPT	CAL
7019	40°25'45.50626"N	89°18'42.87371"W	527.55	1371810.78	711818.50	634.38	LIPT	CAL
7020	40°39'46.87728"N	90°26'07.13346"W	530.60	1462418.80	401082.24	639.78	LIPT	CAL
7020A	40°41'08.82821"N	90°26'42.29183"W	526.43	1470778.04	398571.88	635.61	LIPT	CAL
7021	41°03'50.74504"N	90°33'20.20622"W	594.08	1609380.02	371414.97	702.17	LIPT	CAL
7022	41°07'08.47498"N	90°09'55.60832"W	652.83	1626891.20	479436.94	760.60	LIPT	CAL
7023	40°16'04.82189"N	88°51'41.59025"W	696.73	1311979.27	836845.95	801.73	LIPT	CAL
7024	40°29'42.75088"N	89°39'48.09412"W	408.38	1397098.59	614335.55	516.33	LIPT	CAL
7025	41°00'42.04029"N	90°44'46.32392"W	506.37	1591676.96	318324.14	614.73	LIPT	CAL

PT	NAD83(2011)		ELLIPSOID	ILLINOIS EAST ZONE		NAVD88	CODE	NOTE
NAME	LATITUDE	LONGITUDE	HEIGHT	STATE PLANE		ELEVATION		
			US FT	NORTHING	EASTING	GEOID 18		
				US FT	US FT	US FT		
7025A	41°01'10.34059"N	90°45'56.38626"W	483.89	1594690.61	313032.30	592.27	LIPT	CAL
7026	40°34'22.66641"N	88°32'07.81215"W	677.30	1422701.38	928087.06	782.44	LIPT	CAL
7027	41°08'55.14794"N	90°43'31.43725"W	566.07	1641430.86	325435.79	674.27	LIPT	CAL
7028	40°34'55.41512"N	89°07'29.57312"W	660.81	1426939.06	764386.29	766.52	LIPT	CAL
7029	40°54'02.97521"N	90°38'46.24622"W	663.72	1550537.42	344861.84	772.16	LIPT	CAL
7030	41°15'45.53087"N	89°13'13.94565"W	580.78	1675158.74	740330.64	689.14	LIPT	CAL
7031	41°04'49.01874"N	89°37'59.30451"W	729.10	1610139.75	625900.16	837.53	LIPT	CAL
7032	40°22'54.25334"N	90°37'43.04572"W	514.15	1361272.90	344777.87	623.11	LIPT	CAL
7033	39°55'18.90349"N	88°34'20.34960"W	582.37	1185555.65	917220.40	687.73	LIPT	CAL
7034	41°02'05.77797"N	89°24'09.19615"W	397.47	1592754.54	689270.00	505.69	LIPT	CAL
7035	40°44'51.44143"N	88°37'38.98318"W	599.46	1486405.31	902744.48	704.72	LIPT	CAL
7036	40°39'08.55111"N	88°53'03.67662"W	636.53	1452047.09	831356.80	741.81	LIPT	CAL
7037	40°47'03.76610"N	90°00'52.24704"W	554.32	1504122.60	518680.73	663.09	LIPT	CAL
7038	41°00'28.72457"N	90°37'46.23682"W	604.45	1589460.15	350496.60	712.68	LIPT	CAL
7039	40°40'36.56135"N	91°04'27.00824"W	437.81	1472332.07	223979.06	547.18	LIPT	CAL
7040	41°06'42.10095"N	89°58'21.87468"W	682.29	1623163.60	532485.62	790.33	LIPT	CAL
7041	40°25'13.89179"N	89°25'04.98655"W	531.69	1368956.53	682229.06	638.84	LIPT	CAL
7042	40°06'31.85212"N	88°33'43.47491"W	592.10	1253642.77	920268.11	696.91	LIPT	CAL
7043	40°41'59.34676"N	90°00'29.41442"W	642.10	1473279.45	519849.25	750.78	LIPT	CAL
7044	41°12'13.28769"N	90°26'40.15138"W	694.63	1659484.37	403295.59	802.37	LIPT	CAL
7045	39°53'14.21736"N	88°43'37.76964"W	621.95	1173092.97	873736.23	727.76	LIPT	CAL
7046	40°20'12.93706"N	89°18'42.26570"W	523.40	1338155.19	711493.14	630.32	LIPT	CAL
7046A	40°18'39.53405"N	89°14'03.86362"W	557.85	1328474.30	732956.11	664.49	LIPT	CAL
7047	40°50'23.81997"N	89°53'12.93483"W	600.88	1523717.91	554373.59	709.38	LIPT	CAL
7047A	40°47'31.68093"N	89°53'55.05084"W	537.21	1506353.70	550825.23	645.81	LIPT	CAL
7047B	40°46'09.63444"N	89°42'48.24983"W	536.13	1497188.64	601983.71	644.37	LIPT	CAL
7048	40°59'11.33446"N	89°27'30.76714"W	541.95	1575293.60	673594.95	650.06	LIPT	CAL

PT	NAD83(2011)		ELLIPSOID	ILLINOIS EAST ZONE		NAVD88	CODE	NOTE
NAME	LATITUDE	LONGITUDE	HEIGHT	STATE PLANE		ELEVATION		
			US FT	NORTHING	EASTING	GEOID 18		
				US FT	US FT	US FT		
7049	40°15'01.62604"N	88°38'19.38245"W	618.50	1305291.91	899008.16	723.19	LIPT	CAL
7049A	40°11'07.71869"N	88°39'09.76663"W	613.89	1281636.08	895016.36	718.60	LIPT	CAL
7050	40°29'54.22549"N	88°57'30.78926"W	707.76	1396087.52	810370.62	812.93	LIPT	CAL
7051	40°33'35.53327"N	90°00'37.32069"W	541.99	1422302.23	518268.16	650.39	LIPT	CAL
7052	40°46'09.88479"N	89°27'36.48756"W	707.26	1496211.61	672138.20	814.64	LIPT	CAL
7053	40°59'11.49066"N	90°05'54.60725"W	672.52	1578233.12	496906.32	780.60	LIPT	CAL
7054	40°36'47.63142"N	89°37'33.17289"W	351.89	1439942.32	625390.24	459.98	LIPT	CAL
7054A	40°33'11.29804"N	89°35'47.72960"W	533.67	1417930.84	633208.32	641.52	LIPT	CAL
7055	40°20'45.41251"N	88°45'33.09736"W	676.79	1340219.61	865546.74	781.53	LIPT	CAL
7055A	40°21'35.01063"N	88°47'34.29848"W	690.89	1345285.62	856188.52	795.67	LIPT	CAL
7056	40°28'34.67766"N	90°40'20.85508"W	521.80	1396047.15	333476.71	630.97	LIPT	CAL
7057	41°10'57.13073"N	89°39'28.22186"W	673.89	1647499.46	619657.18	782.46	LIPT	CAL
7058	41°15'27.73109"N	90°36'35.10160"W	623.51	1680313.69	358330.26	731.44	LIPT	CAL
7058A	41°12'07.49390"N	90°34'45.30918"W	684.81	1659827.31	366192.58	792.74	LIPT	CAL
7059	40°30'28.80834"N	89°47'14.99393"W	373.34	1402304.57	579885.07	481.58	LIPT	CAL
7059A	40°34'07.18931"N	89°46'30.56365"W	503.86	1424348.93	583678.65	612.13	LIPT	CAL
7060	40°46'48.67136"N	89°22'01.67037"W	668.21	1499819.74	697946.20	775.19	LIPT	CAL
7060A	40°42'21.72432"N	89°24'31.84892"W	619.69	1472942.61	686061.92	726.66	LIPT	CAL
7061	40°20'34.33855"N	88°31'32.23846"W	677.78	1338871.62	930649.62	782.67	LIPT	CAL
7061A	40°25'37.51331"N	88°34'09.28851"W	763.58	1369580.79	918570.99	868.51	LIPT	CAL
7062	40°59'17.89563"N	89°38'50.58539"W	643.53	1576685.67	621468.19	751.84	LIPT	CAL
7063	40°25'33.84410"N	90°47'34.54064"W	588.22	1378656.53	299447.73	697.26	LIPT	CAL
7064	40°37'31.62805"N	90°27'49.37641"W	555.76	1448919.94	392870.57	664.89	LIPT	CAL
7065	40°54'41.88159"N	90°17'04.81347"W	663.40	1552038.95	444895.27	771.79	LIPT	CAL
7066	40°07'21.23456"N	88°51'24.81771"W	620.28	1258988.61	837833.62	725.48	LIPT	CAL
7067	41°06'57.38195"N	89°11'40.25441"W	550.37	1621632.52	746956.70	658.32	LIPT	CAL
7068	40°18'57.00216"N	88°59'12.78881"W	624.07	1329636.08	801999.05	729.52	LIPT	CAL

PT	NAD83(2011)		ELLIPSOID	ILLINOIS EAST ZONE		NAVD88	CODE	NOTE
NAME	LATITUDE	LONGITUDE	HEIGHT	STATE PLANE		ELEVATION		
			US FT	NORTHING	EASTING	GEOID 18		
				US FT	US FT	US FT		
7069	40°33'12.53548"N	90°45'05.55111"W	640.47	1424762.83	312244.57	749.70	LIPT	CAL
7069A	40°33'54.83298"N	90°40'13.84102"W	617.52	1428435.86	334878.08	726.78	LIPT	CAL
7070	41°17'57.84275"N	90°56'26.06317"W	593.54	1698066.85	267816.55	701.63	LIPT	CAL
7071	40°48'46.91779"N	91°04'46.65891"W	412.18	1522012.53	224018.72	521.33	LIPT	CAL
7071A	40°49'19.58747"N	91°01'06.28724"W	415.20	1524793.91	241067.35	524.29	LIPT	CAL
7072	40°06'02.10459"N	89°04'53.61026"W	543.57	1251430.71	774937.12	649.47	LIPT	CAL
7073	40°36'43.16233"N	88°59'17.46430"W	663.92	1437531.24	802437.18	769.26	LIPT	CAL
7073A	40°39'02.75509"N	88°59'55.54039"W	627.19	1451680.08	799607.49	732.70	LIPT	CAL
7074	40°21'48.86358"N	89°06'43.55485"W	585.70	1347310.09	767234.66	691.59	LIPT	CAL
7075	41°07'04.24637"N	89°22'15.30797"W	392.90	1622856.95	698357.35	501.39	LIPT	CAL
7075A	41°04'11.59206"N	89°25'39.98948"W	383.06	1605574.34	682471.78	491.42	LIPT	CAL
7076	40°21'01.99381"N	90°06'54.97771"W	442.37	1346613.44	487578.39	551.02	LIPT	CAL
7076A	40°23'51.85635"N	90°09'12.78705"W	482.06	1364021.27	477261.98	590.79	LIPT	CAL
7077	40°42'38.17014"N	90°15'57.88961"W	433.44	1478677.43	448418.39	542.64	LIPT	CAL
7078	40°31'49.73637"N	89°30'15.32098"W	530.56	1409322.30	658758.04	638.02	LIPT	CAL
7079	40°44'22.63357"N	89°08'11.87081"W	631.13	1484371.79	761647.14	737.27	LIPT	CAL
7079A	40°43'07.32150"N	89°18'40.84700"W	647.41	1477241.20	713145.91	753.96	LIPT	CAL
7080	40°23'44.79150"N	88°52'13.75075"W	694.44	1358540.70	834635.42	799.41	LIPT	CAL
7081	40°59'19.83879"N	90°22'59.33194"W	654.22	1580794.82	418334.17	762.39	LIPT	CAL
7082	40°53'17.14202"N	90°31'04.86670"W	666.13	1544987.42	380178.74	774.62	LIPT	CAL
7083	41°12'07.21763"N	91°00'12.86559"W	467.97	1663101.60	249411.80	576.37	LIPT	CAL
7084	40°22'05.51742"N	90°45'44.36322"W	560.45	1357335.95	307389.94	669.32	LIPT	CAL
7085	40°51'07.64152"N	89°07'11.00902"W	656.82	1525317.57	766699.63	763.37	LIPT	CAL
7086	40°40'25.88292"N	89°32'52.43604"W	409.02	1461721.59	647346.63	516.81	LIPT	CAL
7087	40°44'02.82927"N	90°39'42.77633"W	627.60	1489909.01	338905.90	736.61	LIPT	CAL
7088	40°38'16.19274"N	88°47'38.59443"W	632.19	1446604.31	856385.07	737.36	LIPT	CAL
A 57	40°28'58.38328"N	90°29'42.10257"W	548.63	1397187.02	382902.90	657.49	MFBC	

PT	NAD83(2011)		ELLIPSOID	ILLINOIS EAST ZONE		NAVD88	CODE	NOTE
NAME	LATITUDE	LONGITUDE	HEIGHT	STATE PLANE		ELEVATION		
			US FT	NORTHING	EASTING	GEOID 18		
				US FT	US FT	US FT		
A 172	40°39'00.79832"N	88°59'53.90677"W	631.26	1451481.10	799731.91	736.76	MFBC	
B 165	40°21'25.35747"N	88°47'34.83520"W	691.18	1344308.99	856141.90	795.96	MFBC	
BONTZ	40°46'32.83250"N	89°42'30.75088"W	597.15	1499515.27	603366.96	705.37	MFBC	
BRIMFIELD	40°49'40.13270"N	89°53'21.20251"W	568.94	1519307.68	553659.58	677.47	MFBC	
D 229	40°44'02.85721"N	89°00'53.93206"W	623.02	1482085.27	795342.36	728.92	MFBC	
DIS 3 GPS 2084	41°10'36.60369"N	89°12'45.43387"W	575.92	1643869.75	742191.88	684.08	MFIR	
GOODFIELD 2	40°37'40.87045"N	89°16'29.13187"W	641.08	1444092.88	722934.25	747.45	MFBC	
H 172	40°33'41.74067"N	88°59'20.73089"W	725.02	1419173.35	802048.54	830.24	MFBC	
ILDOT D4 1953	41°01'54.65984"N	89°37'14.27038"W	694.82	1592441.68	629088.58	803.19	MFIR	
ILDOT D4 4906	40°18'16.14603"N	90°11'28.91179"W	466.73	1330265.59	466015.83	575.21	MFIR	
ILDOT D4 5354	41°02'04.03688"N	90°16'24.95318"W	707.96	1596722.89	448949.94	815.87	MFIR	
ILDOT D4 5510	40°21'05.26735"N	90°18'55.20392"W	552.52	1348131.14	431819.75	661.12	MFIR	
ILDOT D4 6414	40°24'50.13366"N	90°29'39.42350"W	537.89	1372057.24	382494.88	646.68	MFIR	
ILDOT D4 8366	41°11'11.78064"N	90°55'56.69879"W	482.12	1656896.48	268828.06	590.48	MFIR	
ILDOT D4 8734	40°40'52.72061"N	90°58'58.18531"W	602.04	1473190.18	249367.59	711.29	MFIR	
J 229	40°48'35.18146"N	89°01'25.73098"W	593.98	1509664.35	793111.32	700.17	MFBC	
J 297	40°22'30.41434"N	88°49'44.70447"W	697.64	1350946.71	846125.00	802.50	MFIR	
K 235	40°37'45.44477"N	89°37'06.08758"W	360.92	1445762.61	627564.60	469.00	MFBC	
KNOXVILLE	40°54'28.88916"N	90°16'40.34131"W	666.01	1550682.10	446745.07	774.41	MFBC	
MASON 13	40°17'49.56764"N	90°02'19.39461"W	365.40	1326719.13	508540.93	473.76	MFBC	
MASON 16	40°17'49.53329"N	89°58'18.01877"W	385.31	1326362.58	527244.66	493.45	MFBC	
N 239	40°16'29.99248"N	90°03'58.00192"W	360.95	1318814.38	500742.47	469.27	MFBC	
NORWOOD	41°05'15.76228"N	90°35'22.14099"W	617.28	1618225.21	362296.57	725.37	MFRB	
P 229	40°52'55.69812"N	89°01'51.22443"W	632.98	1536045.20	791360.95	739.39	MFBC	
PTS 61	40°23'21.11005"N	90°52'07.89630"W	534.47	1365820.40	277918.84	643.42	MFBC	
Q 161	40°32'59.67071"N	89°35'31.83234"W	535.24	1416736.57	634418.65	643.07	MFBC	
Q 238	40°27'50.54827"N	89°50'15.12071"W	402.15	1386521.70	565698.03	510.40	MFBC	

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NAME	LATITUDE	LONGITUDE	HEIGHT	STATE PLANE		ELEVATION		
			US FT	NORTHING	EASTING	GEOID 18		
				US FT	US FT	US FT		
U 232	41°11'06.27354"N	89°23'44.01503"W	406.34	1647434.51	691866.67	515.02	MFBC	
WAPELLA ECC	40°13'16.60916"N	88°57'45.01655"W	640.97	1295141.18	808553.58	746.41	MFBC	
Y 33	40°33'25.70137"N	90°41'36.34871"W	602.23	1425657.27	328430.64	711.48	MFBC	
Y 43	40°40'22.06950"N	90°02'06.48619"W	647.97	1463578.03	512181.52	756.62	MFBC	
Y 296	40°14'11.38214"N	88°36'29.06383"W	605.95	1300179.62	907546.09	710.69	MFIR	
95 7567 ME	41°11'57.97693"N	90°43'56.46271"W	629.85	1659989.64	324031.51	737.97	MFIR	

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NAME	LATITUDE	LONGITUDE	HEIGHT	STATE PLANE		ELEVATION		
			US FT	NORTHING	EASTING	GEOID 18		
				US FT	US FT	US FT		
5001	40°03'18.36688"N	88°44'43.71476"W	585.07	1237115.553	2694411.77	690.108	LIPT	NVA
5002	40°29'29.61248"N	90°20'33.72297"W	395.622	1392982.36	2247623.399	504.616	LIPT	NVA
5003	40°47'57.64470"N	90°47'53.12501"W	624.657	1505691.323	2121771.509	733.479	LIPT	NVA
5004	40°30'53.28723"N	89°54'21.56608"W	351.661	1401507.967	2369059.515	460.014	LIPT	NVA
5005	40°44'10.76537"N	89°00'28.21055"W	629.542	1484221.563	2617715.126	735.443	LIPT	NVA
5006	40°27'02.37772"N	88°43'00.31124"W	760.342	1381347.268	2700095.636	865.29	LIPT	NVA
5007	40°12'36.94352"N	90°25'38.78359"W	543.818	1290567.749	2223753.142	652.338	LIPT	NVA
5008	39°50'34.27930"N	88°27'56.63666"W	576.327	1161169.659	2774197.402	681.786	LIPT	NVA
5009	41°10'48.06743"N	89°49'54.18565"W	675.607	1643928.907	2388782.961	783.959	LIPT	NVA
5010	40°47'52.16767"N	89°12'06.96711"W	633.598	1505976.966	2563679.735	740.141	LIPT	NVA
5011	40°58'05.15342"N	90°20'31.23519"W	683.021	1566590.465	2248162.267	791.222	LIPT	NVA
5012	40°21'07.34033"N	90°19'42.27732"W	539.581	1342148.778	2251504.936	648.178	LIPT	NVA
5012A	40°20'32.26789"N	90°15'58.04378"W	511.354	1338574.151	2268860.529	619.929	LIPT	NVA
5013	40°55'48.81272"N	89°45'43.10841"W	630.516	1553002.75	2408403.197	738.754	LIPT	NVA
5013A	40°56'26.27900"N	89°45'27.56473"W	620.878	1556799.941	2409578.479	729.129	LIPT	NVA
5014	40°12'45.91853"N	88°30'22.25255"W	622.449	1295708.105	2760326.582	727.416	LIPT	NVA
5015	41°14'24.93277"N	90°49'07.08728"W	633.275	1666372.017	2117283.241	741.405	LIPT	NVA
5016	40°21'57.14236"N	90°25'32.06528"W	625.364	1347252.665	2224439.983	734.019	LIPT	NVA
5017	40°36'54.28956"N	89°48'36.42016"W	508.282	1438132.821	2395567.683	616.59	LIPT	NVA
5018	40°55'28.09571"N	89°11'07.96714"W	593.735	1552168.112	2567700.281	700.818	LIPT	NVA
5019	40°26'01.60858"N	89°18'52.49850"W	528.927	1373028.977	2533775.715	635.761	LIPT	NVA
5020	40°39'43.17608"N	90°26'11.49021"W	527.842	1455137.82	2221718.499	637.018	LIPT	NVA
5020A	40°39'58.61050"N	90°25'55.24604"W	530.423	1456695.919	2222975.019	639.604	LIPT	NVA
5021	41°03'51.84741"N	90°33'33.97270"W	585.952	1601872.045	2188277.446	694.045	LIPT	NVA
5022	41°06'50.20295"N	90°09'46.94812"W	652.025	1619678.457	2297582.315	759.806	LIPT	NVA
5023	40°16'05.02668"N	88°50'31.57132"W	690.517	1314278.278	2666205.61	795.455	LIPT	NVA
5024	40°29'23.91191"N	89°39'50.75050"W	412.265	1392754.729	2436365.197	520.207	LIPT	NVA

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NAME	LATITUDE	LONGITUDE	HEIGHT	STATE PLANE		ELEVATION		
			US FT	NORTHING	EASTING	GEOID 18		
				US FT	US FT	US FT		
5025	41°00'48.54550"N	90°45'15.12934"W	485.786	1583623.048	2134445.919	594.161	LIPT	NVA
5025A	41°03'14.53704"N	90°45'53.79344"W	489.973	1598418.041	2131583.355	598.326	LIPT	NVA
5026	40°34'05.39619"N	88°32'11.50913"W	672.43	1425031.66	2749462.478	777.572	LIPT	NVA
5027	41°07'36.66546"N	90°43'48.55020"W	566.974	1624882.72	2141349.642	675.207	LIPT	NVA
5028	40°35'00.54444"N	89°08'12.19084"W	663.879	1428094.659	2582650.95	769.645	LIPT	NVA
5029	40°54'05.61905"N	90°38'29.01470"W	654.125	1542656.719	2165355.695	762.566	LIPT	NVA
5030	41°16'00.10009"N	89°13'17.67859"W	573.926	1676744.438	2556391.552	682.296	LIPT	NVA
5031	41°04'41.45004"N	89°37'59.43541"W	742.996	1607098.079	2443662	851.423	LIPT	NVA
5032	40°22'53.83583"N	90°37'08.97677"W	525.039	1353206.468	2170527.119	633.99	LIPT	NVA
5033	39°55'22.74353"N	88°34'08.17001"W	579.052	1189824.623	2744694.826	684.402	LIPT	NVA
5034	41°01'12.80592"N	89°23'40.47459"W	408.138	1586474.869	2509629.379	516.274	LIPT	NVA
5035	40°44'40.34994"N	88°37'27.25999"W	603.074	1488851.234	2723967.308	708.331	LIPT	NVA
5036	40°39'11.53484"N	88°53'56.83690"W	635.799	1454355.614	2648279.484	741.107	LIPT	NVA
5037	40°46'30.88601"N	90°01'02.98765"W	564.451	1496317.188	2337896.409	673.241	LIPT	NVA
5038	41°00'33.32337"N	90°40'08.54394"W	552.189	1581935.83	2157938.766	660.466	LIPT	NVA
5039	40°40'40.54687"N	91°04'30.86783"W	438.046	1462131.068	2044582.732	547.409	LIPT	NVA
5039A	40°43'41.72868"N	91°03'56.69833"W	430.353	1480439.391	2047402.966	539.659	LIPT	NVA
5040	41°06'32.19662"N	89°58'21.82321"W	689.246	1617915.589	2350025.349	797.289	LIPT	NVA
5041	40°25'22.41663"N	89°25'22.14903"W	513.633	1368790.834	2503679.363	620.802	LIPT	NVA
5042	40°06'21.59706"N	88°33'31.23688"W	594.174	1256546.924	2746368.939	698.985	LIPT	NVA
5043	40°41'50.27363"N	90°00'43.65667"W	620.443	1467922.458	2339433.552	729.121	LIPT	NVA
5044	41°12'08.13676"N	90°26'37.15596"W	694.802	1651976.284	2220364.074	802.545	LIPT	NVA
5045	39°53'18.67250"N	88°43'37.21970"W	622.534	1176515.693	2700562.169	728.34	LIPT	NVA
5046	40°20'25.64356"N	89°18'42.61716"W	521.425	1339038.964	2534868.473	628.343	LIPT	NVA
5046A	40°20'13.96901"N	89°20'00.00554"W	533.153	1337800.439	2528887.259	640.128	LIPT	NVA
5047	40°50'16.29909"N	89°53'04.87291"W	593.664	1519219.145	2374605.08	702.16	LIPT	NVA
5047A	40°48'23.38881"N	89°53'53.28837"W	527.997	1507781.021	2370918.916	636.584	LIPT	NVA

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NAME	LATITUDE	LONGITUDE	HEIGHT	STATE PLANE		ELEVATION		
			US FT	NORTHING	EASTING	GEOID 18		
				US FT	US FT	US FT		
5048	40°59'22.33413"N	89°27'39.07477"W	540.269	1575139.936	2491431.301	648.396	LIPT	NVA
5049	40°15'12.64548"N	88°38'45.78320"W	625.635	1309855.763	2721007.35	730.317	LIPT	NVA
5050	40°30'15.75938"N	88°57'05.34834"W	692.897	1399930.913	2634498.162	798.053	LIPT	NVA
5051	40°33'38.80025"N	90°00'40.26283"W	543.29	1418187.911	2339782.833	651.694	LIPT	NVA
5052	40°46'10.64976"N	89°27'28.30978"W	694.467	1495027.205	2492905.522	801.831	LIPT	NVA
5053	40°59'49.04856"N	90°05'54.05292"W	687.701	1577063.648	2315441.325	795.755	LIPT	NVA
5054	40°36'51.86445"N	89°37'28.44489"W	358.484	1438150.385	2447080.872	466.575	LIPT	NVA
5055	40°20'29.48160"N	88°45'34.50593"W	663.653	1341394.68	2688808.02	768.389	LIPT	NVA
5055A	40°21'25.82974"N	88°47'34.45289"W	691.539	1346950.924	2679431.613	796.318	LIPT	NVA
5056	40°28'24.11419"N	90°40'22.45490"W	546.212	1386709.408	2155746.511	655.379	LIPT	NVA
5057	41°13'15.59495"N	89°39'34.94443"W	641.361	1659088.671	2436044.834	749.955	LIPT	NVA
5058	41°15'34.96952"N	90°36'33.76884"W	646.016	1673097.809	2174867.494	753.932	LIPT	NVA
5058A	41°12'05.45542"N	90°35'13.66245"W	680.479	1651863.202	2180882.659	788.424	LIPT	NVA
5059	40°30'47.02633"N	89°47'14.92864"W	375.589	1400993.928	2402011.935	483.831	LIPT	NVA
5059A	40°34'09.94975"N	89°45'56.11289"W	496.087	1421555.594	2408005.693	604.349	LIPT	NVA
5060	40°47'11.47963"N	89°21'56.21858"W	696.8	1501403.029	2518400.005	803.803	LIPT	NVA
5061	40°20'29.97312"N	88°31'32.17545"W	684.685	1342567.82	2754032.041	789.583	LIPT	NVA
5062	40°59'15.71017"N	89°39'03.75436"W	633.326	1574102.477	2438931.143	741.639	LIPT	NVA
5063	40°25'27.39573"N	90°47'49.66619"W	585.445	1369049.18	2121058.767	694.477	LIPT	NVA
5064	40°37'13.47217"N	90°27'57.65683"W	558.147	1440014.848	2213485.539	667.274	LIPT	NVA
5065	40°52'26.73401"N	90°21'24.95917"W	661.222	1532350.739	2243966.685	769.818	LIPT	NVA
5066	40°07'29.12342"N	88°51'19.80714"W	624.01	1262017.107	2663237.719	729.198	LIPT	NVA
5066A	40°09'48.21601"N	88°47'30.87129"W	626.537	1276360.866	2680803.761	731.476	LIPT	NVA
5067	41°06'46.97106"N	89°11'55.72689"W	550.36	1620832.547	2563272.446	658.314	LIPT	NVA
5068	40°18'46.72408"N	88°58'58.24095"W	634.724	1330085.187	2626711.735	740.168	LIPT	NVA
5069	40°33'31.46383"N	90°45'06.50307"W	643.287	1417947.214	2134001.905	752.517	LIPT	NVA
5069A	40°33'54.84472"N	90°40'24.42679"W	613	1420178.35	2155786.461	722.258	LIPT	NVA

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NAME	LATITUDE	LONGITUDE	HEIGHT	STATE PLANE		ELEVATION		
			US FT	NORTHING	EASTING	GEOID 18		
				US FT	US FT	US FT		
5070	41°17'45.06277"N	90°58'03.71988"W	588.279	1686969.508	2076474.951	696.409	LIPT	NVA
5071	40°48'47.22715"N	91°05'06.81687"W	413.763	1511411.742	2042328.457	522.924	LIPT	NVA
5072	40°05'51.93640"N	89°05'05.74864"W	544.19	1251319.239	2599198.558	650.089	LIPT	NVA
5073	40°36'26.56024"N	88°59'32.40790"W	655.654	1437301.239	2622638.335	760.99	LIPT	NVA
5073A	40°39'00.62194"N	88°59'54.06612"W	632.145	1452869.886	2620760.86	737.646	LIPT	NVA
5074	40°21'50.69872"N	89°06'51.55831"W	593.301	1348239.244	2589825.094	699.206	LIPT	NVA
5075	41°10'53.26693"N	89°23'39.76694"W	408.03	1645221.049	2509163.049	516.7	LIPT	NVA
5075A	41°04'11.88576"N	89°25'22.24951"W	359.744	1604530.764	2501673.928	468.111	LIPT	NVA
5076	40°20'56.65056"N	90°06'53.58864"W	382.374	1341030.097	2311015.446	491.021	LIPT	NVA
5077	40°42'32.80738"N	90°15'58.23878"W	428.572	1472204.688	2268996.239	537.772	LIPT	NVA
5078	40°31'28.71454"N	89°28'27.42311"W	549.163	1405741.576	2489060.002	656.509	LIPT	NVA
5079	40°44'26.49225"N	89°08'06.62524"W	629.941	1485372.905	2582408.433	736.082	LIPT	NVA
5080	40°23'42.33702"N	88°51'49.09063"W	689.849	1360466.608	2659515.293	794.795	LIPT	NVA
5081	40°58'57.08628"N	90°23'22.34830"W	676.425	1571876.074	2235049.844	784.609	LIPT	NVA
5082	40°53'27.10717"N	90°30'57.50633"W	664.128	1538596.05	2200009.532	772.614	LIPT	NVA
5083	41°14'06.12763"N	91°00'15.63238"W	470.915	1664906.483	2066192.571	579.232	LIPT	NVA
5084	40°22'01.80254"N	90°45'27.51436"W	555.009	1348168.715	2131913.068	663.881	LIPT	NVA
5085	40°51'05.02108"N	89°07'07.70965"W	655.662	1525758.181	2586461.364	762.207	LIPT	NVA
5086	40°40'13.13119"N	89°33'42.76450"W	383.333	1458631.323	2464344.663	491.201	LIPT	NVA
5087	40°47'55.75331"N	90°09'58.90344"W	523.582	1504870.504	2296667.663	632.481	LIPT	NVA
5088	40°44'29.43127"N	91°03'31.34011"W	429.866	1485246.952	2049404.267	539.142	LIPT	NVA
5089	41°05'41.80943"N	89°51'52.18648"W	630.534	1612901.091	2379867.844	738.79	LIPT	NVA
5090	40°47'56.57228"N	90°32'18.79677"W	601.101	1505171.711	2193624.59	709.97	LIPT	NVA
5091	39°47'55.71792"N	88°35'31.27875"W	568.548	1144475.433	2739016.701	674.508	LIPT	NVA
5092	40°32'59.16712"N	90°30'13.37169"W	533.648	1414318.243	2202922.1	642.651	LIPT	NVA
5093	40°51'28.57546"N	89°40'40.27464"W	616.829	1526785.248	2431793.572	724.944	LIPT	NVA
5094	40°01'35.33252"N	88°34'33.26045"W	558.943	1227492.392	2742067.323	663.907	LIPT	NVA

PT	NAD83(2011)		ELLIPSOID	ILLINOIS WEST ZONE		NAVD88	CODE	NOTE
NAME	LATITUDE	LONGITUDE	HEIGHT	STATE PLANE		ELEVATION		
			US FT	NORTHING	EASTING	GEOID 18		
				US FT	US FT	US FT		
5095	40°13'25.60259"N	88°42'56.74993"W	631.938	1298697.515	2701726.051	736.65	LIPT	NVA
5095A	40°11'52.43005"N	88°43'19.04603"W	596.651	1289240.808	2700150.104	701.397	LIPT	NVA
5096	40°19'34.40704"N	90°36'26.02359"W	554.706	1333009.22	2173750.527	663.57	LIPT	NVA
5096A	40°19'21.07895"N	90°38'09.14236"W	486.216	1331701.571	2165757.11	595.096	LIPT	NVA
5097	41°15'25.35846"N	89°20'26.94828"W	393.366	1672894.14	2523644.746	502.038	LIPT	NVA
5098	40°54'20.47658"N	89°01'59.98454"W	641.762	1545833.309	2609852.535	748.246	LIPT	NVA
5098A	40°52'55.84580"N	89°01'49.37917"W	631.323	1537278.964	2610778.06	737.73	LIPT	NVA
5099	40°44'33.90632"N	88°42'58.22145"W	606.71	1487764.762	2698503.76	712.076	LIPT	NVA
5099A	40°33'41.39190"N	88°59'20.60616"W	727.959	1420598.659	2623772.099	833.179	LIPT	NVA
5100	40°33'23.61425"N	90°51'58.63253"W	620.246	1417384.769	2102186.921	729.497	LIPT	NVA
5101	40°13'40.31864"N	90°21'35.22902"W	601.977	1296932.27	2242661.911	710.415	LIPT	NVA
5102	40°55'55.41314"N	90°56'19.66557"W	458.274	1554353.835	2083242.675	567.074	LIPT	NVA
5103	40°43'56.97818"N	90°40'13.79753"W	640.732	1481107.519	2156955.815	749.74	LIPT	NVA
5104	40°34'01.26937"N	88°36'52.20798"W	643.942	1424222.676	2727807.091	749.179	LIPT	NVA
5105	40°38'37.33003"N	88°47'35.61890"W	628.337	1451335.315	2677715.948	733.534	LIPT	NVA
5106	40°26'03.64100"N	89°13'04.51664"W	571.861	1373508.924	2560681.333	678.207	LIPT	NVA
5106A	40°23'52.74701"N	89°17'54.57619"W	530.273	1360032.595	2538382.684	637.095	LIPT	NVA
5107	41°20'05.72228"N	90°51'16.51429"W	625.629	1700938.936	2107669.175	733.581	LIPT	NVA
5108	40°41'47.37806"N	90°49'30.83442"W	652.473	1468276.07	2113976.102	761.57	LIPT	NVA
5109	40°40'32.54152"N	89°40'39.25350"W	535.699	1460395.938	2432242.103	643.949	LIPT	NVA
5110	40°38'10.02000"N	90°09'34.32481"W	631.152	1445595.996	2298562.674	739.968	LIPT	NVA
5111	40°51'36.95218"N	90°12'11.68870"W	577.016	1527257.766	2286465.274	685.661	LIPT	NVA
5112	40°10'47.74522"N	90°13'52.43000"W	351.761	1279417.744	2278543.546	459.968	LIPT	NVA
5112A	40°16'30.49933"N	90°14'02.82109"W	502.459	1314101.164	2277763.423	610.841	LIPT	NVA
5113	40°32'53.43644"N	89°36'09.52521"W	525.184	1414060.763	2453321.443	633.047	LIPT	NVA
5113A	40°33'11.48577"N	89°35'33.16913"W	531.834	1415905.388	2456115.988	639.667	LIPT	NVA
5114	40°20'16.82424"N	90°11'24.98384"W	377.792	1336996.701	2290002.743	486.384	LIPT	NVA

PT	NAD83(2011)		ELLIPSOID	ILLINOIS WEST ZONE		NAVD88	CODE	NOTE
NAME	LATITUDE	LONGITUDE	HEIGHT	STATE PLANE		ELEVATION		
			US FT	NORTHING	EASTING	GEOID 18		
				US FT	US FT	US FT		
5115	41°19'50.80757"N	90°40'38.78874"W	700.417	1699093.331	2156307.643	808.274	LIPT	NVA
5116	41°06'04.64416"N	90°55'46.18031"W	434.402	1615987.748	2086351.468	542.916	LIPT	NVA
5117	40°26'30.29066"N	88°59'26.21845"W	748.605	1376966.8	2623920.603	853.871	LIPT	NVA
5118	40°24'27.07767"N	90°53'51.67034"W	523.053	1363161.097	2093012.466	632.113	LIPT	NVA
5119	40°25'04.77258"N	90°29'49.26593"W	537.721	1366305.605	2204603.147	646.514	LIPT	NVA
5120	40°37'34.31617"N	89°27'46.71055"W	610.641	1442763.859	2491908.275	717.899	LIPT	NVA
5121	40°18'54.58648"N	89°10'14.90183"W	605.065	1330235.676	2574285.69	711.359	LIPT	NVA
5122	40°26'32.23852"N	88°31'00.82294"W	750.901	1379273.614	2755775.571	855.831	LIPT	NVA
5123	41°13'45.97580"N	89°51'31.55780"W	678.506	1661906.801	2381273.889	786.818	LIPT	NVA
5124	40°17'32.23383"N	90°54'39.97879"W	533.942	1321213.339	2088922.409	642.515	LIPT	NVA
5125	40°22'16.35736"N	89°32'50.37676"W	496.714	1349695.615	2469146.594	604.113	LIPT	NVA
5126	41°00'32.01699"N	89°08'03.81619"W	578.916	1583088.859	2581472.47	686.24	LIPT	NVA
5127	40°34'34.21293"N	90°16'35.14372"W	527.219	1423776.257	2266093.847	636.26	LIPT	NVA
5128	40°37'46.23953"N	89°16'41.30006"W	638.802	1444434.677	2543201.994	745.185	LIPT	NVA
5128A	40°37'12.86348"N	89°15'54.80162"W	638.834	1441093.571	2546821.656	745.174	LIPT	NVA
5129	40°55'00.72042"N	89°17'57.15131"W	592.262	1549065.722	2536318.632	699.624	LIPT	NVA
5130	40°48'50.91211"N	90°24'05.19874"W	608.036	1510539.531	2231598.989	716.941	LIPT	NVA
5131	40°37'36.74123"N	90°18'19.04597"W	440.901	1442258.555	2258105.779	550.078	LIPT	NVA
5132	40°24'04.55297"N	90°09'43.61270"W	460.138	1360039.981	2297851.073	568.873	LIPT	NVA
5133	40°41'50.83186"N	89°53'27.03425"W	647.946	1468061.305	2373062.578	756.394	LIPT	NVA
5134	41°04'24.80460"N	90°13'46.03203"W	698.771	1604969.794	2279272.406	806.585	LIPT	NVA
5135	40°24'19.72894"N	89°38'52.97238"W	426.368	1361999.325	2441009.89	534.001	LIPT	NVA
5136	41°01'41.57113"N	90°16'51.75687"W	726.853	1588464.505	2265026.793	834.788	LIPT	NVA
5137	40°29'15.06376"N	90°11'25.61367"W	577.92	1391462.181	2289968.629	686.75	LIPT	NVA
5138	40°29'15.45012"N	90°01'49.40528"W	524.646	1391529.655	2334487.728	633.2	LIPT	NVA
5139	40°45'46.03843"N	89°38'02.37274"W	621.769	1492191.422	2444136.8	729.811	LIPT	NVA
5139A	40°46'33.01905"N	89°42'30.36593"W	596.404	1496829.365	2423490.934	704.624	LIPT	NVA

PT	NAD83(2011)		ELLIPSOID	ILLINOIS WEST ZONE		NAVD88	CODE	NOTE
NAME	LATITUDE	LONGITUDE	HEIGHT	STATE PLANE		ELEVATION		
			US FT	NORTHING	EASTING	GEOID 18		
				US FT	US FT	US FT		
5140	41°10'33.64093"N	89°12'23.68598"W	577.935	1643749.376	2560879.458	686.07	LIPT	NVA
5140A	41°10'36.09567"N	89°12'44.74370"W	576.892	1643980.1	2559266.48	685.049	LIPT	NVA
5141	40°43'45.39486"N	90°24'19.27185"W	540.992	1479624.622	2230432.844	650.136	LIPT	NVA
5142	40°31'45.33042"N	89°21'27.69997"W	531.743	1407698.969	2521455.89	638.61	LIPT	NVA
5142A	40°09'22.95157"N	88°30'59.97899"W	601.185	1275114.26	2757781.459	706.058	LIPT	NVA
5143	40°09'29.31575"N	88°58'42.58727"W	611.639	1273695.933	2628680.004	717.184	LIPT	NVA
5144	41°01'16.29696"N	89°55'37.30841"W	602.925	1585976.774	2362705.999	711.149	LIPT	NVA
5145	40°11'08.13073"N	88°38'33.48865"W	620.014	1285128.583	2722385.69	724.729	LIPT	NVA
5145A	40°11'07.99357"N	88°40'05.41453"W	620.271	1284993.246	2715251.376	724.985	LIPT	NVA
5146	40°55'18.14126"N	89°55'37.42480"W	615.943	1549730.738	2362796.465	724.252	LIPT	NVA
5147	40°42'13.31434"N	89°24'37.39839"W	630.467	1471118.917	2506262.129	737.445	LIPT	NVA
5147A	40°43'13.12207"N	89°24'26.95106"W	683.145	1477178.307	2507014.416	790.131	LIPT	NVA
5148	41°10'22.64949"N	90°59'44.24478"W	475.327	1642265.891	2068374.993	583.787	LIPT	NVA
5149	40°44'45.78867"N	90°54'26.57151"W	567.445	1486512.346	2091349.838	676.49	LIPT	NVA
5150	41°19'17.26564"N	90°30'08.40655"W	690.457	1695464.018	2204384.571	798.125	LIPT	NVA
5151	40°22'50.08935"N	89°27'07.92306"W	573.976	1353308.88	2495623.674	681.168	LIPT	NVA
5152	40°25'13.40424"N	88°54'07.26853"W	781.379	1369526.954	2648692.416	886.412	LIPT	NVA
5153	41°03'46.03975"N	89°46'04.15809"W	597.375	1601291.89	2406567.025	705.743	LIPT	NVA
5153A	41°03'55.96995"N	89°48'39.41319"W	592.581	1602245.422	2394670.557	700.91	LIPT	NVA
5154	40°34'02.38380"N	88°54'04.34746"W	673.821	1423061.45	2648150.457	778.888	LIPT	NVA
5155	40°56'07.74166"N	90°09'39.85744"W	493.009	1554659.708	2298129.198	601.289	LIPT	NVA
5156	40°27'01.58930"N	88°37'53.58782"W	779.392	1381668.325	2723809.412	884.387	LIPT	NVA
5157	41°06'09.45342"N	89°04'01.59188"W	573.667	1617466.088	2599611.618	681.104	LIPT	NVA
5158	40°33'37.49917"N	90°10'55.36275"W	568.082	1418018.506	2292310.514	676.83	LIPT	NVA
5159	40°00'42.06101"N	88°43'38.08495"W	583.08	1221380.838	2699770.8	688.251	LIPT	NVA
5160	40°56'31.08213"N	90°50'59.13092"W	610.575	1557758.916	2107872.241	719.164	LIPT	NVA
5161	39°56'36.69573"N	88°27'32.94491"W	573.947	1197878.107	2775344.259	679.069	LIPT	NVA

PT	NAD83(2011)		ELLIPSOID	ILLINOIS WEST ZONE		NAVD88	CODE	NOTE
NAME	LATITUDE	LONGITUDE	HEIGHT	STATE PLANE		ELEVATION		
			US FT	NORTHING	EASTING	GEOID 18		
				US FT	US FT	US FT		
5162	40°14'23.72871"N	89°07'32.33417"W	619.142	1302971.797	2587200.418	725.282	LIPT	NVA
5163	40°54'03.77958"N	89°40'06.23820"W	592.958	1542506.742	2434319.408	701.095	LIPT	NVA
5164	41°17'45.00559"N	90°59'14.37882"W	584.193	1687014.095	2071081.598	692.341	LIPT	NVA
5165	40°06'24.00277"N	88°30'02.41600"W	612.928	1257089.098	2762590.486	717.798	LIPT	NVA
5166	40°17'36.94297"N	90°03'59.09622"W	358.259	1320833.231	2324547.668	466.67	LIPT	NVA
5167	40°51'46.35394"N	90°57'38.17267"W	440.468	1529202.549	2076988.482	549.41	LIPT	NVA
5168	40°47'09.32920"N	90°59'41.80388"W	467.947	1501255.442	2067224.771	577.059	LIPT	NVA
5169	41°06'27.42955"N	90°23'54.36869"W	677.771	1617458.605	2232715.205	785.598	LIPT	NVA
5170	40°25'37.77414"N	89°58'50.38362"W	366.137	1369527.683	2348365.731	474.668	LIPT	NVA
5171	40°43'22.58990"N	89°16'09.93868"W	627.328	1478497.335	2545272.527	733.751	LIPT	NVA
5171A	40°43'10.29720"N	89°19'04.87802"W	649.457	1477119.435	2531815.45	756.04	LIPT	NVA
5172	40°29'44.75045"N	89°05'37.62076"W	683.248	1396279.675	2594965.665	788.863	LIPT	NVA
5173	40°38'21.59445"N	88°40'12.01970"W	638.358	1450300.84	2711938.588	743.61	LIPT	NVA
5174	40°07'37.69298"N	88°38'28.98255"W	593.593	1263839.66	2723101.082	698.355	LIPT	NVA
5175	41°11'51.45380"N	90°43'27.79422"W	632.283	1650658.534	2143103.202	740.397	LIPT	NVA
6001	40°00'49.82265"N	88°43'37.40619"W	584.261	1222167.096	2699810.923	689.422	LIPT	VVA
6002	40°30'01.33986"N	90°23'39.50238"W	537.991	1396225.795	2233278.795	646.963	LIPT	VVA
6003	40°47'28.43427"N	90°46'42.74259"W	626.675	1502696.87	2127163.585	735.511	LIPT	VVA
6004	40°30'53.68640"N	89°54'25.71245"W	352.915	1401547.416	2368739.167	461.269	LIPT	VVA
6005	40°43'57.47994"N	89°01'06.41796"W	626.613	1482838.422	2614791.559	732.512	LIPT	VVA
6006	40°27'08.88964"N	88°43'00.57644"W	760.772	1382005.922	2700064.313	865.726	LIPT	VVA
6007	40°13'21.73536"N	90°21'13.86957"W	561.804	1295048.301	2244314.567	670.231	LIPT	VVA
6008	39°48'23.55648"N	88°28'18.58886"W	558.129	1147909.348	2772735.738	663.709	LIPT	VVA
6009	41°05'37.56621"N	89°51'06.47740"W	629.75	1612484.046	2383368.95	738.026	LIPT	VVA
6010	40°47'54.51355"N	89°12'18.40935"W	617.889	1506204.705	2562797.145	724.443	LIPT	VVA
6011	40°57'19.78306"N	90°23'45.76552"W	663.001	1562033.464	2233228.087	771.274	LIPT	VVA
6012	40°21'10.19110"N	90°19'39.69574"W	545.264	1342436.886	2251705.32	653.863	LIPT	VVA

PT	NAD83(2011)		ELLIPSOID	ILLINOIS WEST ZONE		NAVD88	CODE	NOTE
NAME	LATITUDE	LONGITUDE	HEIGHT	STATE PLANE		ELEVATION		
			US FT	NORTHING	EASTING	GEOID 18		
				US FT	US FT	US FT		
6013	40°55'24.81502"N	89°45'19.74762"W	632.695	1550582.515	2410207.614	740.919	LIPT	VVA
6013A	40°55'48.78447"N	89°44'58.05352"W	607.239	1553016.14	2411861.288	715.471	LIPT	VVA
6014	40°12'37.52884"N	88°30'05.70254"W	622.575	1294883.17	2761626.497	727.554	LIPT	VVA
6015	41°11'48.33804"N	90°52'54.06041"W	577.082	1650659.877	2099813.73	685.358	LIPT	VVA
6016	40°22'00.74899"N	90°25'52.60421"W	604.7	1347622.328	2222851.327	713.361	LIPT	VVA
6017	40°36'55.52705"N	89°48'12.13511"W	509.169	1438265.708	2397439.932	617.476	LIPT	VVA
6018	40°54'59.51566"N	89°17'29.68071"W	578.078	1548964.803	2538428.743	685.415	LIPT	VVA
6019	40°26'04.74086"N	89°18'36.21927"W	531.491	1373358.119	2535031.437	638.305	LIPT	VVA
6020	40°39'58.52494"N	90°25'47.31112"W	530.892	1456685.423	2223586.435	640.074	LIPT	VVA
6020A	40°39'42.35528"N	90°26'12.45278"W	527.353	1455054.986	2221644.066	636.529	LIPT	VVA
6021	41°03'44.76181"N	90°33'29.23516"W	583.518	1601153.325	2188637.11	691.613	LIPT	VVA
6022	41°07'10.28720"N	90°09'47.90126"W	653.424	1621711.065	2297509.284	761.196	LIPT	VVA
6023	40°09'29.41209"N	88°58'07.34418"W	596.754	1273742.432	2631416.2	702.265	LIPT	VVA
6024	40°29'41.38686"N	89°39'09.13688"W	403.26	1394541.61	2439569.957	511.184	LIPT	VVA
6025	41°00'27.49405"N	90°44'47.93574"W	508.605	1581478.637	2136516.331	616.978	LIPT	VVA
6025A	41°02'29.62781"N	90°45'54.07081"W	476.263	1593873.202	2131530.935	584.624	LIPT	VVA
6026	40°34'05.04744"N	88°32'39.40429"W	662.657	1424956.616	2747310.332	767.811	LIPT	VVA
6027	41°12'38.20455"N	90°45'05.57530"W	612.737	1655439.105	2135660.389	720.865	LIPT	VVA
6028	40°34'53.39259"N	89°07'42.33587"W	657.458	1427397.958	2584962.915	763.191	LIPT	VVA
6029	40°54'08.18247"N	90°37'58.15480"W	658.468	1542903.4	2167726.68	766.904	LIPT	VVA
6030	41°15'55.29148"N	89°13'08.87884"W	577.158	1676265.086	2557068.836	685.518	LIPT	VVA
6031	41°05'04.08596"N	89°39'20.93709"W	757.807	1609351.551	2437407.078	866.235	LIPT	VVA
6032	40°22'54.18807"N	90°39'25.28176"W	530.752	1353298.34	2159979.495	639.732	LIPT	VVA
6033	39°55'43.94531"N	88°34'33.26228"W	580.632	1191935.119	2742701.618	685.967	LIPT	VVA
6034	41°01'07.04321"N	89°24'30.91251"W	394.555	1585857.777	2505768.428	502.722	LIPT	VVA
6035	40°44'40.67296"N	88°37'42.19622"W	594.986	1488863.746	2722817.079	700.248	LIPT	VVA
6036	40°39'35.98036"N	88°55'43.99314"W	631.701	1456711.84	2639985.619	737.103	LIPT	VVA

PT	NAD83(2011)		ELLIPSOID	ILLINOIS WEST ZONE		NAVD88	CODE	NOTE
NAME	LATITUDE	LONGITUDE	HEIGHT	STATE PLANE		ELEVATION		
			US FT	NORTHING	EASTING	GEOID 18		
				US FT	US FT	US FT		
6037	40°46'34.81459"N	90°01'02.54948"W	560.934	1496714.811	2337929.442	669.722	LIPT	VVA
6037A	40°47'18.49952"N	89°57'56.22545"W	533.528	1501164.28	2352253.238	642.233	LIPT	VVA
6038	40°57'42.18413"N	90°33'18.65419"W	637.227	1564455.845	2189284.325	745.487	LIPT	VVA
6039	40°40'39.81653"N	91°04'22.42415"W	438.275	1462050.443	2045232.513	547.637	LIPT	VVA
6040	41°06'25.32223"N	89°58'21.09477"W	686.182	1617219.996	2350082.657	794.227	LIPT	VVA
6041	40°25'14.30099"N	89°25'05.27693"W	530.116	1367980.604	2504991.164	637.271	LIPT	VVA
6042	40°04'10.04254"N	88°33'14.17017"W	566.911	1243258.531	2747936.44	671.772	LIPT	VVA
6043	40°41'45.22475"N	90°00'35.16976"W	610.09	1467412.686	2340088.135	718.758	LIPT	VVA
6044	41°12'12.01298"N	90°26'55.95310"W	690.637	1652373.199	2218928.555	798.386	LIPT	VVA
6045	39°53'34.42832"N	88°43'55.26309"W	634.43	1178087.371	2699130.092	740.22	LIPT	VVA
6046	40°20'14.73440"N	89°20'00.35229"W	530.643	1337877.639	2528859.678	637.619	LIPT	VVA
6046A	40°22'18.42063"N	89°32'35.78432"W	509.013	1349912.336	2470274.522	616.404	LIPT	VVA
6047	40°50'03.96322"N	89°53'01.96809"W	579.427	1517971.481	2374832.371	687.932	LIPT	VVA
6048	40°59'13.77846"N	89°27'37.39659"W	525.827	1574275.116	2491566.993	633.945	LIPT	VVA
6049	40°15'00.99397"N	88°38'20.11953"W	617.667	1308710.9	2723017.489	722.357	LIPT	VVA
6050	40°29'43.09977"N	88°57'49.63495"W	691.867	1396578.968	2631122.285	797.051	LIPT	VVA
6051	40°33'40.17174"N	90°00'34.48989"W	541.548	1418327.488	2340228.131	649.95	LIPT	VVA
6052	40°46'09.00209"N	89°27'54.73543"W	678.757	1494844.121	2490873.701	786.156	LIPT	VVA
6053	40°59'34.08040"N	90°05'08.13497"W	669.957	1575551.849	2318963.49	778.032	LIPT	VVA
6054	40°37'25.06090"N	89°37'24.62118"W	353.165	1441511.558	2447355.012	461.264	LIPT	VVA
6055	40°20'30.62880"N	88°44'52.82858"W	668.648	1341562.298	2692033.372	773.372	LIPT	VVA
6055A	40°21'25.16065"N	88°47'34.87586"W	689.694	1346882.707	2679399.92	794.474	LIPT	VVA
6056	40°28'19.81112"N	90°40'10.47083"W	595.808	1386268.671	2156670.147	704.965	LIPT	VVA
6057	41°10'39.75065"N	89°38'50.76060"W	700.063	1643336.174	2439515.302	808.628	LIPT	VVA
6058	41°16'00.53797"N	90°36'23.44325"W	677.021	1675681.516	2175669.161	784.919	LIPT	VVA
6058A	41°12'02.39213"N	90°34'54.54872"W	684.685	1651546.161	2182342.19	792.624	LIPT	VVA
6059	40°28'41.13881"N	89°47'50.83268"W	402.782	1388243.145	2399292.259	510.984	LIPT	VVA

PT	NAD83(2011)		ELLIPSOID	ILLINOIS WEST ZONE		NAVD88	CODE	NOTE
NAME	LATITUDE	LONGITUDE	HEIGHT	STATE PLANE		ELEVATION		
			US FT	NORTHING	EASTING	GEOID 18		
				US FT	US FT	US FT		
6059A	40°33'40.48537"N	89°46'27.42782"W	503.443	1418563.065	2405602.446	611.705	LIPT	VVA
6060	40°47'05.23060"N	89°22'01.21237"W	694.476	1500767.123	2518021.651	801.478	LIPT	VVA
6060A	40°42'23.15671"N	89°24'30.61204"W	618.498	1472119.453	2506776.182	725.469	LIPT	VVA
6061	40°20'22.34361"N	88°31'41.07064"W	686.457	1341782.969	2753357.545	791.349	LIPT	VVA
6061A	40°26'53.07522"N	88°37'45.51451"W	770.718	1380817.574	2724448.556	875.707	LIPT	VVA
6062	40°59'11.51241"N	89°39'06.29573"W	640.743	1573676.504	2438738.76	749.054	LIPT	VVA
6063	40°25'30.45436"N	90°47'36.10294"W	584.954	1369351.231	2122109.882	693.991	LIPT	VVA
6064	40°37'16.81607"N	90°27'18.21374"W	565.08	1440343.08	2216528.097	674.214	LIPT	VVA
6065	40°54'46.46380"N	90°16'59.44955"W	665.124	1546455.712	2264381.222	773.505	LIPT	VVA
6066	40°09'48.01418"N	88°47'31.03737"W	626.043	1276340.243	2680791.183	730.982	LIPT	VVA
6066A	40°11'01.73634"N	88°44'40.46475"W	627.074	1284008.909	2693914.401	731.873	LIPT	VVA
6067	41°06'47.16535"N	89°11'55.96719"W	550.052	1620852.005	2563253.835	658.006	LIPT	VVA
6068	40°18'44.52006"N	89°00'09.74114"W	599.78	1329788.727	2621175.925	705.313	LIPT	VVA
6069	40°33'28.38082"N	90°40'23.32612"W	602.361	1417499.845	2155856.01	711.614	LIPT	VVA
6069A	40°33'55.42823"N	90°40'04.85920"W	615.185	1420228.76	2157296.897	724.441	LIPT	VVA
6070	40°56'18.70531"N	90°56'54.16275"W	443.565	1556734.582	2080616.05	552.37	LIPT	VVA
6071	40°47'13.58300"N	90°59'40.72736"W	458.504	1501685.145	2067311.641	567.613	LIPT	VVA
6072	40°05'51.27912"N	89°05'05.55045"W	543.846	1251252.916	2599214.768	649.745	LIPT	VVA
6073	40°36'12.21307"N	88°59'31.49512"W	664.441	1435850.265	2622728.111	769.765	LIPT	VVA
6073A	40°39'00.74256"N	88°59'53.59195"W	630.544	1452882.578	2620797.246	736.044	LIPT	VVA
6074	40°22'07.97236"N	89°06'51.73382"W	592.662	1349987.068	2589790.714	698.557	LIPT	VVA
6075	41°10'54.09977"N	89°23'45.43217"W	412.218	1645301.497	2508729.13	520.889	LIPT	VVA
6075A	41°04'10.92224"N	89°25'40.46801"W	383.795	1604421.39	2500279.377	492.158	LIPT	VVA
6076	40°21'08.96490"N	90°06'58.30762"W	443.573	1342275.984	2310649.389	552.225	LIPT	VVA
6077	40°42'35.12036"N	90°16'02.88615"W	431.361	1472439.163	2268638.625	540.561	LIPT	VVA
6078	40°31'43.45222"N	89°29'22.95984"W	549.255	1407199.655	2484759.976	656.66	LIPT	VVA
6079	40°44'25.19915"N	89°08'00.09936"W	625.726	1485247.951	2582912.29	731.862	LIPT	VVA

PT	NAD83(2011)		ELLIPSOID	ILLINOIS WEST ZONE		NAVD88	CODE	NOTE
NAME	LATITUDE	LONGITUDE	HEIGHT	STATE PLANE		ELEVATION		
			US FT	NORTHING	EASTING	GEOID 18		
				US FT	US FT	US FT		
6079A	40°43'09.21345"N	89°19'14.22853"W	638.021	1477002.814	2531096.547	744.614	LIPT	VVA
6080	40°23'44.95499"N	88°52'02.12238"W	693.571	1360716.693	2658503.114	798.526	LIPT	VVA
6081	40°59'19.63096"N	90°23'41.55155"W	667.944	1574161.444	2233583.072	776.112	LIPT	VVA
6082	40°53'14.53752"N	90°30'56.32325"W	665.431	1537323.633	2200095.318	773.93	LIPT	VVA
6083	41°12'56.95574"N	91°00'15.57418"W	468.897	1657905.718	2066129.562	577.261	LIPT	VVA
6084	40°20'46.61922"N	90°45'27.16814"W	527.719	1340560.603	2131889.058	636.539	LIPT	VVA
6085	40°50'47.27929"N	89°07'09.22869"W	659.996	1523961.28	2586366.104	766.522	LIPT	VVA
6086	40°40'31.30578"N	89°32'50.82633"W	421.942	1460498.403	2468333.695	529.728	LIPT	VVA
6087	40°47'49.77240"N	90°09'53.11605"W	519.245	1504265.25	2297112.751	628.149	LIPT	VVA
6088	40°44'39.58042"N	91°03'24.53902"W	434.134	1486268.727	2049938.173	543.402	LIPT	VVA
6088A	40°46'13.28368"N	91°02'14.00678"W	431.642	1495697.02	2055460.995	540.839	LIPT	VVA
6089	41°01'11.37830"N	89°55'37.43245"W	588.23	1585478.966	2362697.858	696.455	LIPT	VVA
6090	40°48'00.20225"N	90°32'16.51745"W	602.245	1505538.318	2193801.435	711.111	LIPT	VVA
6091	39°47'55.34357"N	88°35'21.83687"W	566.271	1144450.531	2739754.325	672.224	LIPT	VVA
6092	40°32'54.17661"N	90°29'44.95415"W	515.638	1413804.94	2205113.793	624.637	LIPT	VVA
6093	40°51'56.36233"N	89°40'29.12852"W	600.666	1529602.084	2432634.203	708.78	LIPT	VVA
6094	40°02'21.38090"N	88°34'22.77113"W	563.747	1232166.71	2742799.935	668.676	LIPT	VVA
6095	40°11'52.87673"N	88°43'18.92893"W	597.929	1289286.158	2700158.455	702.675	LIPT	VVA
6095A	40°11'08.80086"N	88°38'35.64375"W	615.956	1285193.525	2722217.264	720.671	LIPT	VVA
6096	40°19'31.91060"N	90°36'19.39025"W	554.866	1332754.052	2174263.009	663.726	LIPT	VVA
6096A	40°19'21.22013"N	90°39'05.32630"W	525.976	1331739.301	2161405.654	634.859	LIPT	VVA
6097	41°14'44.20860"N	89°20'27.12353"W	410.784	1668729.317	2523670.943	519.453	LIPT	VVA
6098	40°54'41.39259"N	89°01'43.00877"W	634.526	1547967.002	2611128.446	741.015	LIPT	VVA
6099	40°44'36.98596"N	88°43'00.72850"W	605.842	1488073.241	2698305.638	711.211	LIPT	VVA
6100	40°33'09.82274"N	90°52'07.83745"W	609.347	1415994.781	2101465.329	718.601	LIPT	VVA
6101	40°24'19.05653"N	90°09'05.69065"W	479.404	1361507.947	2300784.512	588.144	LIPT	VVA
6102	40°51'44.10048"N	90°57'42.14767"W	440.169	1528977.267	2076681.007	549.114	LIPT	VVA

PT	NAD83(2011)		ELLIPSOID	ILLINOIS WEST ZONE		NAVD88	CODE	NOTE
NAME	LATITUDE	LONGITUDE	HEIGHT	STATE PLANE		ELEVATION		
			US FT	NORTHING	EASTING	GEOID 18		
				US FT	US FT	US FT		
6103	40°44'13.49100"N	90°39'48.68831"W	632.564	1482767.571	2158898.206	741.561	LIPT	VVA
6104	40°34'10.83923"N	88°36'47.56898"W	650.549	1425197.461	2728148.026	755.786	LIPT	VVA
6105	40°38'54.05166"N	88°46'35.39616"W	634.342	1453100.492	2682331.546	739.567	LIPT	VVA
6106	40°25'51.89276"N	89°13'14.33596"W	562.336	1372311.924	2559934.787	668.704	LIPT	VVA
6107	41°18'55.99293"N	90°48'05.31958"W	666.625	1693770.521	2122202.39	774.588	LIPT	VVA
6108	40°41'44.37128"N	90°49'19.51171"W	647.753	1467965.269	2114845.941	756.85	LIPT	VVA
6109	40°41'59.83721"N	89°41'42.48809"W	590.624	1469203.399	2427322.705	698.892	LIPT	VVA
6109A	40°46'09.84214"N	89°42'48.11144"W	535.021	1494476.8	2422137.873	643.264	LIPT	VVA
6110	40°38'11.77844"N	90°09'35.14679"W	628.714	1445773.937	2298499.293	737.532	LIPT	VVA
6111	40°51'40.13710"N	90°12'06.89863"W	575.415	1527579.929	2286833.44	684.055	LIPT	VVA
6112	40°10'52.22337"N	90°13'50.43584"W	348.298	1279870.766	2278698.647	456.505	LIPT	VVA
6112A	40°16'30.53994"N	90°14'02.41712"W	501.766	1314105.25	2277794.736	610.148	LIPT	VVA
6113	40°32'16.35074"N	89°35'04.84752"W	523.556	1410340.337	2458338.904	631.328	LIPT	VVA
6113A	40°32'59.52754"N	89°35'32.29435"W	534.965	1414695.713	2456191.397	642.79	LIPT	VVA
6114	40°20'17.37881"N	90°11'26.54484"W	375.905	1337052.851	2289881.885	484.497	LIPT	VVA
6115	41°19'56.39628"N	90°40'37.84593"W	695.249	1699658.534	2156382.896	803.103	LIPT	VVA
6116	41°05'59.19428"N	90°55'06.99958"W	464.305	1615410.125	2089346.185	572.807	LIPT	VVA
6117	40°28'00.06673"N	88°59'12.64873"W	719.37	1386065.776	2624848.378	824.615	LIPT	VVA
6118	40°17'29.75913"N	90°54'34.82620"W	533.297	1320959.569	2089319.567	641.868	LIPT	VVA
6119	40°25'06.27490"N	90°29'49.39065"W	539.856	1366457.663	2204594.07	648.65	LIPT	VVA
6120	40°38'00.75748"N	89°28'47.30624"W	603.916	1445402.718	2487215.225	711.269	LIPT	VVA
6121	40°18'53.44469"N	89°10'31.01118"W	609.874	1330106.133	2573039.129	716.191	LIPT	VVA
6122	40°24'47.67545"N	88°31'36.44146"W	672.659	1368640.656	2753218.031	777.577	LIPT	VVA
6123	41°13'12.96119"N	89°46'32.01203"W	675.222	1658657.523	2404175.764	783.685	LIPT	VVA
6124	41°19'09.13468"N	90°30'44.70008"W	680.885	1694651.972	2201612.171	788.562	LIPT	VVA
6125	41°10'11.32230"N	90°59'30.40773"W	469.144	1641109.448	2069422.268	577.607	LIPT	VVA
7001	40°04'10.41779"N	88°44'43.37988"W	585.316	1242383.06	2694353.7	690.313	LIPT	CAL

PT	NAD83(2011)		ELLIPSOID	ILLINOIS WEST ZONE		NAVD88	CODE	NOTE
NAME	LATITUDE	LONGITUDE	HEIGHT	STATE PLANE		ELEVATION		
			US FT	NORTHING	EASTING	GEOID 18		
				US FT	US FT	US FT		
7001A	40°11'09.57326"N	88°44'10.61965"W	636.869	1284839.166	2696218.006	741.649	LIPT	CAL
7002	40°28'50.12847"N	90°18'37.13135"W	519.039	1388970.529	2256624.491	627.997	LIPT	CAL
7003	40°47'38.05562"N	90°46'45.81287"W	624.108	1503672.193	2126934.242	732.936	LIPT	CAL
7004	40°31'01.38930"N	89°54'41.91960"W	383.223	1402323.251	2367485.219	491.578	LIPT	CAL
7005	40°43'59.36122"N	89°00'27.05274"W	620.146	1483068.632	2617819.491	726.032	LIPT	CAL
7006	40°26'54.70396"N	88°43'00.35593"W	761.42	1380570.643	2700104.934	866.362	LIPT	CAL
7007	40°13'55.53456"N	90°21'43.66594"W	587.592	1298473.384	2242010.942	696.036	LIPT	CAL
7008	39°48'15.88201"N	88°27'56.29314"W	562.977	1147165.794	2774490.546	668.547	LIPT	CAL
7009	41°05'21.00967"N	89°51'52.19240"W	619.277	1610796.07	2379874.688	727.535	LIPT	CAL
7010	40°48'16.98939"N	89°11'47.92769"W	639.457	1508505.101	2565116.206	746.015	LIPT	CAL
7011	40°57'42.69318"N	90°20'47.54318"W	665.728	1564319.994	2246906.627	773.954	LIPT	CAL
7012	40°21'05.66031"N	90°19'00.13315"W	547.813	1341973.028	2254767.341	656.407	LIPT	CAL
7013	40°55'57.42961"N	89°45'13.04071"W	629.308	1553885.58	2410706.85	737.546	LIPT	CAL
7013A	40°54'04.23295"N	89°40'40.21373"W	615.949	1542537.909	2431710.291	724.091	LIPT	CAL
7014	40°12'43.50681"N	88°30'34.45176"W	620.016	1295446.354	2759384.702	724.973	LIPT	CAL
7015	41°14'29.20880"N	90°49'22.77691"W	620.79	1666813.803	2116087.931	728.922	LIPT	CAL
7016	40°22'03.35720"N	90°25'17.11503"W	576.414	1347878.192	2225598.969	685.071	LIPT	CAL
7017	40°36'52.58087"N	89°48'24.55536"W	456.456	1437963.633	2396483.356	564.764	LIPT	CAL
7018	40°55'09.45274"N	89°17'37.63222"W	564.243	1549964.361	2537808.274	671.602	LIPT	CAL
7019	40°25'45.50626"N	89°18'42.87371"W	527.55	1371406.708	2534535.721	634.38	LIPT	CAL
7020	40°39'46.87728"N	90°26'07.13346"W	530.604	1455511.34	2222055.383	639.782	LIPT	CAL
7020A	40°41'08.82821"N	90°26'42.29183"W	526.429	1463812.929	2219372.317	635.61	LIPT	CAL
7021	41°03'50.74504"N	90°33'20.20622"W	594.079	1601755.756	2189331.42	702.168	LIPT	CAL
7022	41°07'08.47498"N	90°09'55.60832"W	652.829	1621527.645	2296919.444	760.601	LIPT	CAL
7023	40°16'04.82189"N	88°51'41.59025"W	696.73	1314177.032	2660778.276	801.728	LIPT	CAL
7024	40°29'42.75088"N	89°39'48.09412"W	408.377	1394662.287	2436559.554	516.332	LIPT	CAL
7025	41°00'42.04029"N	90°44'46.32392"W	506.366	1582949.942	2136649.669	614.734	LIPT	CAL

ILLINOIS MIDNORTH CHECKPOINTS
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65221205

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NAME	LATITUDE	LONGITUDE	HEIGHT	STATE PLANE		ELEVATION		
			US FT	NORTHING	EASTING	GEOID 18		
				US FT	US FT	US FT		
7025A	41°01'10.34059"N	90°45'56.38626"W	483.893	1585850.273	2131298.446	592.274	LIPT	CAL
7026	40°34'22.66641"N	88°32'07.81215"W	677.295	1426784.706	2749715.42	782.439	LIPT	CAL
7027	41°08'55.14794"N	90°43'31.43725"W	566.068	1632817.126	2142710.165	674.268	LIPT	CAL
7028	40°34'55.41512"N	89°07'29.57312"W	660.805	1427614.263	2585945.221	766.524	LIPT	CAL
7029	40°54'02.97521"N	90°38'46.24622"W	663.716	1542396.374	2164031.093	772.159	LIPT	CAL
7030	41°15'45.53087"N	89°13'13.94565"W	580.777	1675273.01	2556692.67	689.136	LIPT	CAL
7031	41°04'49.01874"N	89°37'59.30451"W	729.1	1607864.125	2443667.337	837.53	LIPT	CAL
7032	40°22'54.25334"N	90°37'43.04572"W	514.147	1353262.347	2167890.95	623.109	LIPT	CAL
7033	39°55'18.90349"N	88°34'20.34960"W	582.374	1189419.081	2743752.84	687.734	LIPT	CAL
7034	41°02'05.77797"N	89°24'09.19615"W	397.468	1591816.479	2507380.966	505.686	LIPT	CAL
7035	40°44'51.44143"N	88°37'38.98318"W	599.456	1489957.886	2723045.276	704.72	LIPT	CAL
7036	40°39'08.55111"N	88°53'03.67662"W	636.533	1454113.068	2652381.208	741.81	LIPT	CAL
7037	40°47'03.76610"N	90°00'52.24704"W	554.317	1499646.019	2338716.927	663.088	LIPT	CAL
7038	41°00'28.72457"N	90°37'46.23682"W	604.446	1581410.12	2168845.723	712.677	LIPT	CAL
7039	40°40'36.56135"N	91°04'27.00824"W	437.813	1461724.668	2044875.929	547.176	LIPT	CAL
7040	41°06'42.10095"N	89°58'21.87468"W	682.292	1618917.939	2350019.178	790.332	LIPT	CAL
7041	40°25'13.89179"N	89°25'04.98655"W	531.685	1367939.386	2505013.973	638.84	LIPT	CAL
7042	40°06'31.85212"N	88°33'43.47491"W	592.1	1257567.488	2745399.276	696.906	LIPT	CAL
7043	40°41'59.34676"N	90°00'29.41442"W	642.099	1468842.585	2340528.851	750.775	LIPT	CAL
7044	41°12'13.28769"N	90°26'40.15138"W	694.627	1652498.318	2220136.78	802.37	LIPT	CAL
7045	39°53'14.21736"N	88°43'37.76964"W	621.952	1176064.193	2700526.566	727.764	LIPT	CAL
7046	40°20'12.93706"N	89°18'42.26570"W	523.396	1337753.425	2534908.107	630.315	LIPT	CAL
7046A	40°18'39.53405"N	89°14'03.86362"W	557.854	1328519.391	2556566.037	664.485	LIPT	CAL
7047	40°50'23.81997"N	89°53'12.93483"W	600.883	1519978.268	2373983.017	709.375	LIPT	CAL
7047A	40°47'31.68093"N	89°53'55.05084"W	537.207	1502547.829	2370799.386	645.813	LIPT	CAL
7047B	40°46'09.63444"N	89°42'48.24983"W	536.125	1494455.726	2422127.334	644.367	LIPT	CAL
7048	40°59'11.33446"N	89°27'30.76714"W	541.948	1574031.892	2492077.391	650.063	LIPT	CAL

PT	NAD83(2011)		ELLIPSOID	ILLINOIS WEST ZONE		NAVD88	CODE	NOTE
NAME	LATITUDE	LONGITUDE	HEIGHT	STATE PLANE		ELEVATION		
			US FT	NORTHING	EASTING	GEOID 18		
				US FT	US FT	US FT		
7049	40°15'01.62604"N	88°38'19.38245"W	618.496	1308775.848	2723073.539	723.186	LIPT	CAL
7049A	40°11'07.71869"N	88°39'09.76663"W	613.888	1285038.71	2719570.794	718.601	LIPT	CAL
7050	40°29'54.22549"N	88°57'30.78926"W	707.755	1397724.752	2632562.809	812.927	LIPT	CAL
7051	40°33'35.53327"N	90°00'37.32069"W	541.985	1417857.711	2340010.488	650.388	LIPT	CAL
7052	40°46'09.88479"N	89°27'36.48756"W	707.264	1494944.716	2492276.958	814.638	LIPT	CAL
7053	40°59'11.49066"N	90°05'54.60725"W	672.515	1573262.678	2315401.787	780.601	LIPT	CAL
7054	40°36'47.63142"N	89°37'33.17289"W	351.885	1437719.776	2446718.894	459.98	LIPT	CAL
7054A	40°33'11.29804"N	89°35'47.72960"W	533.674	1415879.095	2454992.225	641.523	LIPT	CAL
7055	40°20'45.41251"N	88°45'33.09736"W	676.788	1343008.553	2688891.447	781.525	LIPT	CAL
7055A	40°21'35.01063"N	88°47'34.29848"W	690.892	1347880.176	2679429.139	795.67	LIPT	CAL
7056	40°28'34.67766"N	90°40'20.85508"W	521.799	1387777.654	2155876.269	630.973	LIPT	CAL
7057	41°10'57.13073"N	89°39'28.22186"W	673.89	1645078.221	2436640.52	782.455	LIPT	CAL
7058	41°15'27.73109"N	90°36'35.10160"W	623.513	1672365.746	2174761.975	731.436	LIPT	CAL
7058A	41°12'07.49390"N	90°34'45.30918"W	684.805	1652059.131	2183050.898	792.74	LIPT	CAL
7059	40°30'28.80834"N	89°47'14.99393"W	373.343	1399150.357	2402014.817	481.577	LIPT	CAL
7059A	40°34'07.18931"N	89°46'30.56365"W	503.861	1421264.292	2405348.42	612.125	LIPT	CAL
7060	40°46'48.67136"N	89°22'01.67037"W	668.207	1499091.009	2518001.697	775.194	LIPT	CAL
7060A	40°42'21.72432"N	89°24'31.84892"W	619.692	1471973.675	2506682.179	726.664	LIPT	CAL
7061	40°20'34.33855"N	88°31'32.23846"W	677.777	1343009.5	2754018.969	782.674	LIPT	CAL
7061A	40°25'37.51331"N	88°34'09.28851"W	763.579	1373467.57	2741303.758	868.508	LIPT	CAL
7062	40°59'17.89563"N	89°38'50.58539"W	643.525	1574329.635	2439939.706	751.835	LIPT	CAL
7063	40°25'33.84410"N	90°47'34.54064"W	588.222	1369693.392	2122233.134	697.263	LIPT	CAL
7064	40°37'31.62805"N	90°27'49.37641"W	555.761	1441849.984	2214130.242	664.892	LIPT	CAL
7065	40°54'41.88159"N	90°17'04.81347"W	663.397	1545992.541	2263968.796	771.785	LIPT	CAL
7066	40°07'21.23456"N	88°51'24.81771"W	620.284	1261213.085	2662860.259	725.479	LIPT	CAL
7067	41°06'57.38195"N	89°11'40.25441"W	550.372	1621899.378	2564444.981	658.319	LIPT	CAL
7068	40°18'57.00216"N	88°59'12.78881"W	624.066	1331110.223	2625570.93	729.523	LIPT	CAL

PT	NAD83(2011)		ELLIPSOID	ILLINOIS WEST ZONE		NAVD88	CODE	NOTE
NAME	LATITUDE	LONGITUDE	HEIGHT	STATE PLANE		ELEVATION		
			US FT	NORTHING	EASTING	GEOID 18		
				US FT	US FT	US FT		
7069	40°33'12.53548"N	90°45'05.55111"W	640.474	1416031.268	2134062.665	749.7	LIPT	CAL
7069A	40°33'54.83298"N	90°40'13.84102"W	617.522	1420172.476	2156603.396	726.779	LIPT	CAL
7070	41°17'57.84275"N	90°56'26.06317"W	593.535	1688195.339	2083940.478	701.632	LIPT	CAL
7071	40°48'46.91779"N	91°04'46.65891"W	412.175	1511364.242	2043878.058	521.334	LIPT	CAL
7071A	40°49'19.58747"N	91°01'06.28724"W	415.201	1514499.873	2060854.358	524.288	LIPT	CAL
7072	40°06'02.10459"N	89°04'53.61026"W	543.574	1252359.643	2600129.277	649.465	LIPT	CAL
7073	40°36'43.16233"N	88°59'17.46430"W	663.917	1438996.753	2623768.396	769.255	LIPT	CAL
7073A	40°39'02.75509"N	88°59'55.54039"W	627.191	1453084.25	2620644.359	732.695	LIPT	CAL
7074	40°21'48.86358"N	89°06'43.55485"W	585.697	1348060.917	2590446.822	691.592	LIPT	CAL
7075	41°07'04.24637"N	89°22'15.30797"W	392.898	1622100.945	2515832.771	501.386	LIPT	CAL
7075A	41°04'11.59206"N	89°25'39.98948"W	383.056	1604489.49	2500315.454	491.419	LIPT	CAL
7076	40°21'01.99381"N	90°06'54.97771"W	442.37	1341570.722	2310907.59	551.02	LIPT	CAL
7076A	40°23'51.85635"N	90°09'12.78705"W	482.061	1358755.428	2300235.968	590.787	LIPT	CAL
7077	40°42'38.17014"N	90°15'57.88961"W	433.437	1472747.354	2269023.742	542.636	LIPT	CAL
7078	40°31'49.73637"N	89°30'15.32098"W	530.556	1407804.869	2480712.092	638.018	LIPT	CAL
7079	40°44'22.63357"N	89°08'11.87081"W	631.126	1484977.665	2582009.247	737.266	LIPT	CAL
7079A	40°43'07.32150"N	89°18'40.84700"W	647.408	1476836.247	2533668.695	753.963	LIPT	CAL
7080	40°23'44.79150"N	88°52'13.75075"W	694.441	1360686.939	2657603.664	799.405	LIPT	CAL
7081	40°59'19.83879"N	90°22'59.33194"W	654.223	1574174.236	2236820.716	762.385	LIPT	CAL
7082	40°53'17.14202"N	90°31'04.86670"W	666.128	1537589.835	2199440.222	774.624	LIPT	CAL
7083	41°12'07.21763"N	91°00'12.86559"W	467.968	1652869.863	2066288.113	576.368	LIPT	CAL
7084	40°22'05.51742"N	90°45'44.36322"W	560.448	1348553.378	2130611.485	669.318	LIPT	CAL
7085	40°51'07.64152"N	89°07'11.00902"W	656.816	1526020.343	2586204.652	763.367	LIPT	CAL
7086	40°40'25.88292"N	89°32'52.43604"W	409.018	1459948.75	2468213.534	516.808	LIPT	CAL
7087	40°44'02.82927"N	90°39'42.77633"W	627.604	1481686.052	2159347.2	736.61	LIPT	CAL
7088	40°38'16.19274"N	88°47'38.59443"W	632.185	1449192.633	2677519.959	737.364	LIPT	CAL
A 57	40°28'58.38328"N	90°29'42.10257"W	548.63	1389943.261	2205245.075	657.49	MFBC	

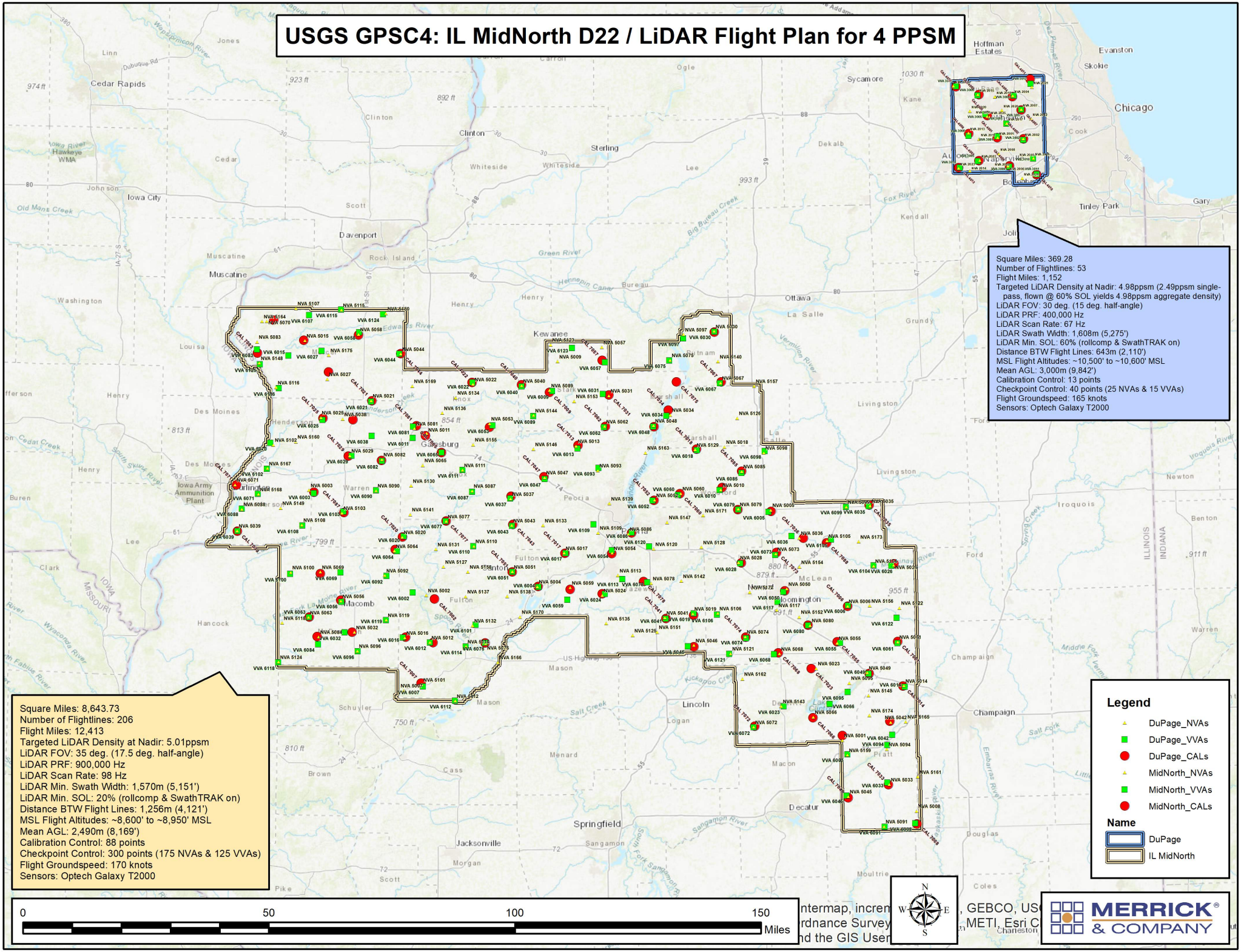
ILLINOIS MIDNORTH CHECKPOINTS
MARCH 2022
65221205

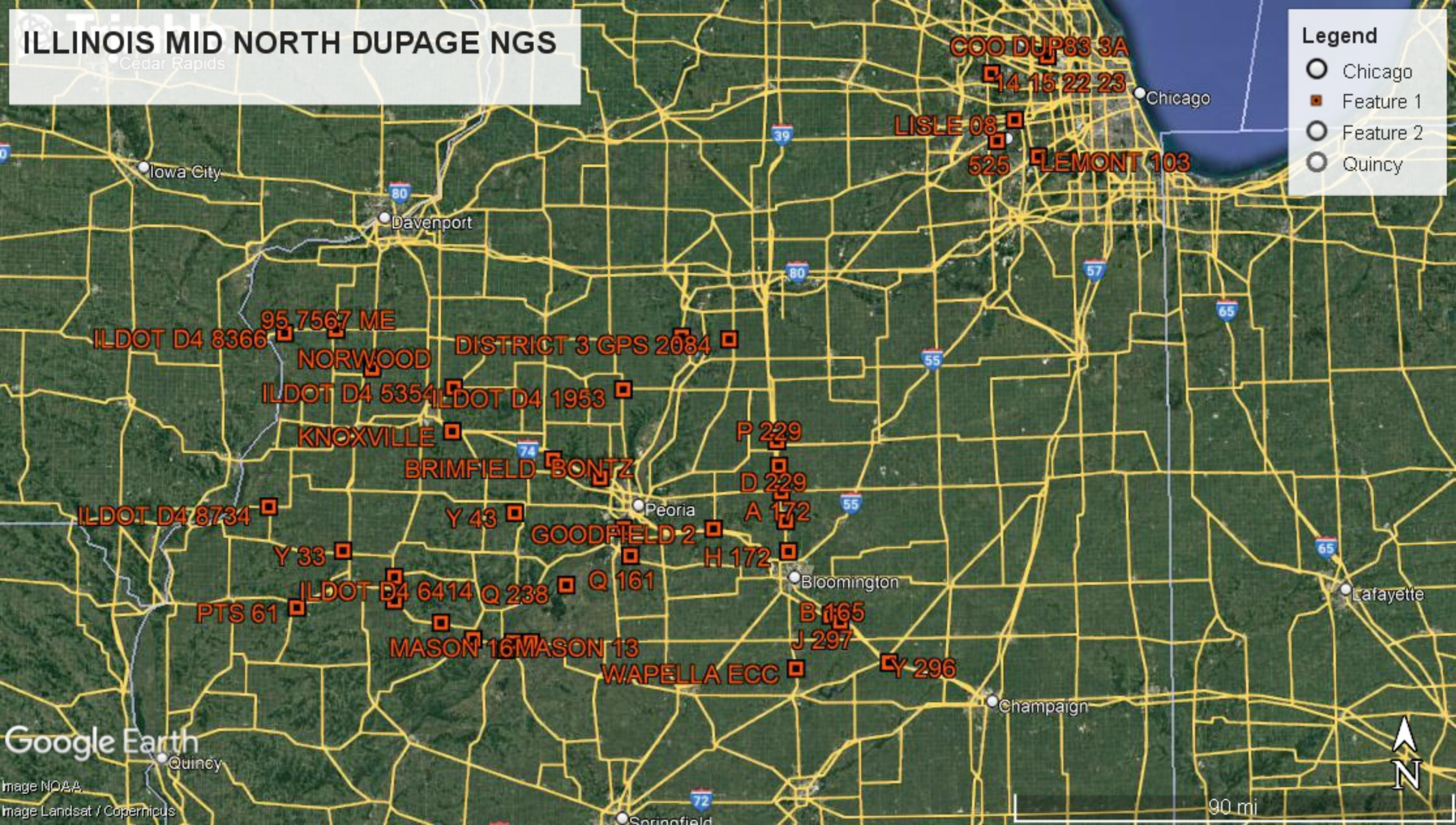
PT	NAD83(2011)		ELLIPSOID	ILLINOIS WEST ZONE		NAVD88	CODE	NOTE
NAME	LATITUDE	LONGITUDE	HEIGHT	STATE PLANE		ELEVATION		
			US FT	NORTHING	EASTING	GEOID 18		
				US FT	US FT	US FT		
A 172	40°39'00.79832"N	88°59'53.90677"W	631.255	1452887.899	2620772.905	736.756	MFBC	
B 165	40°21'25.35747"N	88°47'34.83520"W	691.182	1346902.673	2679402.759	795.961	MFBC	
BONTZ	40°46'32.83250"N	89°42'30.75088"W	597.154	1496810.332	2423461.418	705.374	MFBC	
BRIMFIELD	40°49'40.13270"N	89°53'21.20251"W	568.939	1515555.12	2373361.589	677.467	MFBC	
D 229	40°44'02.85721"N	89°00'53.93206"W	623.017	1483395.195	2615745.62	728.918	MFBC	
DIS 3 GPS 2084	41°10'36.60369"N	89°12'45.43387"W	575.918	1644030.938	2559213.141	684.076	MFIR	
GOODFIELD 2	40°37'40.87045"N	89°16'29.13187"W	641.08	1443900.832	2544145.677	747.451	MFBC	
H 172	40°33'41.74067"N	88°59'20.73089"W	725.022	1420633.825	2623762	830.242	MFBC	
ILDOT D4 1953	41°01'54.65984"N	89°37'14.27038"W	694.823	1590239.686	2447226.453	803.188	MFIR	
ILDOT D4 4906	40°18'16.14603"N	90°11'28.91179"W	466.726	1324785.323	2289695.182	575.209	MFIR	
ILDOT D4 5354	41°02'04.03688"N	90°16'24.95318"W	707.956	1590735.497	2267083.781	815.868	MFIR	
ILDOT D4 5510	40°21'05.26735"N	90°18'55.20392"W	552.523	1341932.62	2255148.885	661.117	MFIR	
ILDOT D4 6414	40°24'50.13366"N	90°29'39.42350"W	537.891	1364821.426	2205358.89	646.678	MFIR	
ILDOT D4 8366	41°11'11.78064"N	90°55'56.69879"W	482.121	1647078.856	2085819.579	590.475	MFIR	
ILDOT D4 8734	40°40'52.72061"N	90°58'58.18531"W	602.044	1463111.553	2070225.629	711.287	MFIR	
J 229	40°48'35.18146"N	89°01'25.73098"W	593.975	1510922.745	2612938.665	700.174	MFBC	
J 297	40°22'30.41434"N	88°49'44.70447"W	697.641	1353332.074	2669249.342	802.495	MFIR	
K 235	40°37'45.44477"N	89°37'06.08758"W	360.92	1443583.194	2448771.218	469.004	MFBC	
KNOXVILLE	40°54'28.88916"N	90°16'40.34131"W	666.005	1544675.237	2265845.946	774.408	MFBC	
MASON 13	40°17'49.56764"N	90°02'19.39461"W	365.403	1322120.669	2332271.123	473.763	MFBC	
MASON 16	40°17'49.53329"N	89°58'18.01877"W	385.307	1322151.281	2350972.984	493.454	MFBC	
N 239	40°16'29.99248"N	90°03'58.00192"W	360.949	1314058.631	2324640.147	469.267	MFBC	
NORWOOD	41°05'15.76228"N	90°35'22.14099"W	617.282	1610403.298	2180033.253	725.37	MFRB	
P 229	40°52'55.69812"N	89°01'51.22443"W	632.977	1537262.179	2610636.519	739.386	MFBC	
PTS 61	40°23'21.11005"N	90°52'07.89630"W	534.467	1356420.56	2100986.871	643.423	MFBC	
Q 161	40°32'59.67071"N	89°35'31.83234"W	535.242	1414710.434	2456226.965	643.067	MFBC	
Q 238	40°27'50.54827"N	89°50'15.12071"W	402.145	1383079.618	2388161.739	510.403	MFBC	

ILLINOIS MIDNORTH CHECKPOINTS
MARCH 2022
65221205

PT	NAD83(2011)		ELLIPSOID	ILLINOIS WEST ZONE		NAVD88	CODE	NOTE
NAME	LATITUDE	LONGITUDE	HEIGHT	STATE PLANE		ELEVATION		
			US FT	NORTHING	EASTING	GEOID 18		
				US FT	US FT	US FT		
U 232	41°11'06.27354"N	89°23'44.01503"W	406.342	1646534.524	2508826.567	515.02	MFBC	
WAPELLA ECC	40°13'16.60916"N	88°57'45.01655"W	640.966	1296756.339	2632837.898	746.414	MFBC	
Y 33	40°33'25.70137"N	90°41'36.34871"W	602.226	1417261.741	2150218.36	711.481	MFBC	
Y 43	40°40'22.06950"N	90°02'06.48619"W	647.974	1458986.106	2333067.281	756.618	MFBC	
Y 296	40°14'11.38214"N	88°36'29.06383"W	605.954	1303840.313	2731716.814	710.691	MFIR	
95 7567 ME	41°11'57.97693"N	90°43'56.46271"W	629.846	1651332.867	2140916.005	737.967	MFIR	

USGS GPSC4: IL MidNorth D22 / LiDAR Flight Plan for 4 PPSM




ILLINOIS MID NORTH DUPAGE NGS
Legend
Chicago
Feature 1
Feature 2
Quincy
COO DUP83 3A
14 15 22 23
LISLE 08
525
LEMONT 103
95 7567 ME
ILDOT D4 8366
NORWOOD
DISTRICT 3 GPS 2084
ILDOT D4 5354
ILDOT D4 1953
KNOXVILLE
P 229
BRIMFIELD
BONTZ
D 229
A 172
ILDOT D4 8734
Y 43
GOODFIELD 2
H 172
Y 33
Q 161
ILDOT D4 6414
Q 238
PTS 61
B 165
J 297
MASON 16
MASON 13
WAPELLA ECC
Y 296
Chicago
Iowa City
Davenport
Peoria
Bloomington
Champaign
Lafayette
Quincy
Springfield
Google Earth
Image NOAA
Image Landsat / Copernicus
90 mi
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SIZE
XL

DATASHEETS Data Sheet Retrieval
The NGS Data Sheet

See file dsdata.pdf for more information about the datasheet.
PROGRAM = datasheet95, VERSION = 8.12.5.14
Starting Datasheet Retrieval...
1 National Geodetic Survey, Retrieval Date = APRIL 21, 2022
AB2598 **********
AB2598 DESIGNATION - 14 15 22 23
AB2598 PID - AB2598
AB2598 STATE/COUNTY- IL/DU PAGE
AB2598 COUNTRY - US
AB2598 USGS QUAD - WEST CHICAGO (2018)
AB2598
AB2598 *CURRENT SURVEY CONTROL
AB2598 _____
AB2598* NAD 83(2011) POSITION- 41 56 38.44554(N) 088 11 03.56532(W) ADJUSTED
AB2598* NAD 83(2011) ELLIP HT- 192.874 (meters) (06/27/12) ADJUSTED
AB2598* NAD 83(2011) EPOCH - 2010.00
AB2598* NAVD 88 ORTHO HEIGHT - 226.195 (meters) 742.11 (feet) ADJUSTED
AB2598 _____
AB2598 GEOID HEIGHT - -33.340 (meters) GEOID18
AB2598 NAD 83(2011) X - 150,541.303 (meters) COMP
AB2598 NAD 83(2011) Y - -4,748,915.779 (meters) COMP
AB2598 NAD 83(2011) Z - 4,241,109.350 (meters) COMP
AB2598 LAPLACE CORR - -1.90 (seconds) DEFLEC18
AB2598 DYNAMIC HEIGHT - 226.117 (meters) 741.85 (feet) COMP
AB2598 MODELED GRAVITY - 980,270.9 (mgal) NAVD 88
AB2598
AB2598 VERT ORDER - SECOND CLASS I
AB2598
AB2598 Network accuracy estimates per FGDC Geospatial Positioning Accuracy
AB2598 Standards:
AB2598 FGDC (95% conf, cm) Standard deviation (cm) CorrNE
AB2598 Horiz Ellip SD_N SD_E SD_h (unitless)
AB2598 ----------
AB2598 NETWORK 0.65 1.14 0.30 0.22 0.58 0.07721227
AB2598 ----------
AB2598 Click here for local accuracies and other accuracy information.
AB2598
AB2598
AB2598.The horizontal coordinates were established by GPS observations
AB2598.and adjusted by the National Geodetic Survey in June 2012.
AB2598
AB2598.NAD 83(2011) refers to NAD 83 coordinates where the reference frame has
AB2598.been affixed to the stable North American tectonic plate. See
AB2598.NA2011 for more information.
AB2598
AB2598.The horizontal coordinates are valid at the epoch date displayed above
AB2598.which is a decimal equivalence of Year/Month/Day.
AB2598
AB2598.The orthometric height was determined by differential leveling and
AB2598.adjusted by the NATIONAL GEODETIC SURVEY

AB2598.in May 2008.
AB2598
AB2598.Significant digits in the geoid height do not necessarily reflect accuracy.
AB2598.GEOID18 height accuracy estimate available here.
AB2598
AB2598.Click photographs - Photos may exist for this station.
AB2598
AB2598.The X, Y, and Z were computed from the position and the ellipsoidal ht.
AB2598
AB2598.The Laplace correction was computed from DEFLEC18 derived deflections.
AB2598
AB2598.The ellipsoidal height was determined by GPS observations
AB2598.and is referenced to NAD 83.
AB2598
AB2598.The dynamic height is computed by dividing the NAVD 88
AB2598.geopotential number by the normal gravity value computed on the
AB2598.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
AB2598.degrees latitude (g = 980.6199 gals.).
AB2598
AB2598.The modeled gravity was interpolated from observed gravity values.
AB2598
AB2598. The following values were computed from the NAD 83(2011) position.
AB2598
AB2598; North East Units Scale Factor Converg.
AB2598;SPC IL E - 585,894.836 312,356.070 MT 0.99997688 +0 05 58.6
AB2598;SPC IL E - 1,922,223.31 1,024,788.21 sFT 0.99997688 +0 05 58.6
AB2598;UTM 16 - 4,644,238.257 401,830.440 MT 0.99971859 -0 47 30.0
AB2598
AB2598! - Elev Factor x Scale Factor = Combined Factor
AB2598!SPC IL E - 0.99996975 x 0.99997688 = 0.99994663
AB2598!UTM 16 - 0.99996975 x 0.99971859 = 0.99968835
AB2598
AB2598_U.S. NATIONAL GRID SPATIAL ADDRESS: 16TDM0183044238(NAD 83)
AB2598
AB2598 SUPERSEDED SURVEY CONTROL
AB2598
AB2598 NAD 83(2007)- 41 56 38.44588(N) 088 11 03.56626(W) AD(2002.00) 0
AB2598 ELLIP H (02/10/07) 192.898 (m) GP(2002.00)
AB2598 ELLIP H (02/03/05) 192.861 (m) GP( ) 4 2
AB2598 NAD 83(1997)- 41 56 38.44648(N) 088 11 03.56606(W) AD( ) 1
AB2598 ELLIP H (10/21/99) 192.863 (m) GP( ) 4 1
AB2598 NAD 83(1997)- 41 56 38.44657(N) 088 11 03.56659(W) AD( ) 1
AB2598 NAD 83(1986)- 41 56 38.44613(N) 088 11 03.58052(W) AD( ) 1
AB2598 NAVD 88 (03/27/96) 226.2 (m) GEOID93 model used GPS OBS
AB2598
AB2598.Superseded values are not recommended for survey control.
AB2598
AB2598.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.
AB2598.See file dsdata.pdf to determine how the superseded data were derived.
AB2598
AB2598_MARKER: DD = SURVEY DISK
AB2598_SETTING: 17 = SET INTO TOP OF METAL PIPE DRIVEN INTO GROUND
AB2598_STAMPING: 14 15 22 23
AB2598_MARK LOGO: NONE

AB2598_PROJECTION: FLUSH
AB2598_MAGNETIC: P = MARKER IS A STEEL PIPE
AB2598_STABILITY: D = MARK OF QUESTIONABLE OR UNKNOWN STABILITY
AB2598_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
AB2598+SATELLITE: SATELLITE OBSERVATIONS - February 24, 2009
AB2598
AB2598 HISTORY - Date Condition Report By
AB2598 HISTORY - 1990 MONUMENTED PATRIC
AB2598 HISTORY - 20000316 GOOD SECI
AB2598 HISTORY - 20040409 GOOD INDIV
AB2598 HISTORY - 20071111 GOOD PATRIC
AB2598 HISTORY - 20090224 GOOD ILDT
AB2598
AB2598 STATION DESCRIPTION
AB2598
AB2598'DESCRIBED BY PATRICK ENGINEERING INCORPORATED 1990
AB2598'STATION IS LOCATED IN BARTLETT, IL.
AB2598'
AB2598'TO REACH THE STATION FROM THE JUNCTION OF ARMY TRAIL ROAD AND COUNTY
AB2598'FARM ROAD, GO WEST 1.75 MI (2.82 KM) TO THE MARK ON THE RIGHT.
AB2598'
AB2598'STATION IS A HARRISON FERRO-MAGNETIC MARKER WITH A BRASS CAP LOCATED
AB2598'2.O FT WEST OF A BITUMINOUS DRIVE LEADING TO A PRIVATE RESIDENCE AT
AB2598'28W774 ARMY TRAIL RD., 1.0 FT (0.3 M) SOUTH OF A CARSONITE WITNESS
AB2598'POST, 20.5 FT (6.2 M) NORTH OF THE NORTH PAINTED WHITE LINE OF ARMY
AB2598'TRAIL RD., 16.5 FT (5.0 M) EAST OF THE EAST FACE OF A POWERLINE POLE,
AB2598'1.0 FT (0.3 M) NORTHEAST OF AN ILLINOIS BELL TELEPHONE BOX, AND FLUSH
AB2598'WITH THE GROUND.
AB2598
AB2598 STATION RECOVERY (2000)
AB2598
AB2598'RECOVERY NOTE BY SMITH ENG CONS INC 2000 (MRF)
AB2598'RECOVERED IN GOOD CONDITION.
AB2598
AB2598 STATION RECOVERY (2004)
AB2598
AB2598'RECOVERY NOTE BY INDIVIDUAL CONTRIBUTORS 2004 (TBW)
AB2598'RECOVERED AS DESCRIBED
AB2598
AB2598 STATION RECOVERY (2007)
AB2598
AB2598'RECOVERY NOTE BY PATRICK ENGINEERING INCORPORATED 2007 (DFR)
AB2598'THE STATION IS IN WAYNE TOWNSHIP, IL.
AB2598'
AB2598'THE STATION IS LOCATED NORTH OF THE INTERSECTION OF SMITH ROAD AND
AB2598'ARMY TRAIL ROAD.
AB2598'
AB2598'THE STATION IS 49.6 FT (15.1 M) NORTH OF THE CENTERLINE OF ARMY TRAIL
AB2598'ROAD, 21.7 FT (6.6 M) EAST OF THE EXTENSION OF THE CENTERLINE OF SMITH
AB2598'ROAD, 2.0 FT (0.6 M) NORTHEAST OF A TELEPHONE BOX, AND 2.6 FT (0.8 M)
AB2598'WEST OF THE DRIVEWAY ENTRANCE TO ADDRESS 28W774. THE DISK IS MAGNETIC
AB2598'AND AT ROAD LEVEL.
AB2598
AB2598 STATION RECOVERY (2009)

DATASHEETS Data Sheet Retrieval
The NGS Data Sheet

See file dsdata.pdf for more information about the datasheet.
PROGRAM = datasheet95, VERSION = 8.12.5.14
Starting Datasheet Retrieval...
1 National Geodetic Survey, Retrieval Date = APRIL 21, 2022
AA3776 **********
AA3776 DESIGNATION - 525
AA3776 PID - AA3776
AA3776 STATE/COUNTY- IL/DU PAGE
AA3776 COUNTRY - US
AA3776 USGS QUAD - NORMANTOWN (2018)
AA3776
AA3776 *CURRENT SURVEY CONTROL
AA3776 _____
AA3776* NAD 83(2011) POSITION- 41 44 50.88294(N) 088 10 00.82610(W) ADJUSTED
AA3776* NAD 83(2011) ELLIP HT- 181.463 (meters) (06/27/12) ADJUSTED
AA3776* NAD 83(2011) EPOCH - 2010.00
AA3776* NAVD 88 ORTHO HEIGHT - 214.596 (meters) 704.05 (feet) ADJUSTED
AA3776 _____
AA3776 GEOID HEIGHT - -33.125 (meters) GEOID18
AA3776 NAD 83(2011) X - 152,451.372 (meters) COMP
AA3776 NAD 83(2011) Y - -4,763,417.852 (meters) COMP
AA3776 NAD 83(2011) Z - 4,224,838.903 (meters) COMP
AA3776 LAPLACE CORR - -1.43 (seconds) DEFLEC18
AA3776 DYNAMIC HEIGHT - 214.520 (meters) 703.80 (feet) COMP
AA3776 MODELED GRAVITY - 980,265.8 (mgal) NAVD 88
AA3776
AA3776 VERT ORDER - SECOND CLASS I
AA3776
AA3776 Network accuracy estimates per FGDC Geospatial Positioning Accuracy
AA3776 Standards:
AA3776 FGDC (95% conf, cm) Standard deviation (cm) CorrNE
AA3776 Horiz Ellip SD_N SD_E SD_h (unitless)
AA3776 ----------
AA3776 NETWORK 0.58 0.98 0.26 0.21 0.50 -0.02064162
AA3776 ----------
AA3776 Click here for local accuracies and other accuracy information.
AA3776
AA3776
AA3776.The horizontal coordinates were established by GPS observations
AA3776.and adjusted by the National Geodetic Survey in June 2012.
AA3776
AA3776.NAD 83(2011) refers to NAD 83 coordinates where the reference frame has
AA3776.been affixed to the stable North American tectonic plate. See
AA3776.NA2011 for more information.
AA3776
AA3776.The horizontal coordinates are valid at the epoch date displayed above
AA3776.which is a decimal equivalence of Year/Month/Day.
AA3776
AA3776.The orthometric height was determined by differential leveling and
AA3776.adjusted by the NATIONAL GEODETIC SURVEY

AA3776.in May 2008.
AA3776
AA3776.Significant digits in the geoid height do not necessarily reflect accuracy.
AA3776.GEOID18 height accuracy estimate available here.
AA3776
AA3776.Click photographs - Photos may exist for this station.
AA3776
AA3776.The X, Y, and Z were computed from the position and the ellipsoidal ht.
AA3776
AA3776.The Laplace correction was computed from DEFLEC18 derived deflections.
AA3776
AA3776.The ellipsoidal height was determined by GPS observations
AA3776.and is referenced to NAD 83.
AA3776
AA3776.The dynamic height is computed by dividing the NAVD 88
AA3776.geopotential number by the normal gravity value computed on the
AA3776.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
AA3776.degrees latitude (g = 980.6199 gals.).
AA3776
AA3776.The modeled gravity was interpolated from observed gravity values.
AA3776
AA3776. The following values were computed from the NAD 83(2011) position.
AA3776
AA3776;   North   East   Units Scale Factor Converg.
AA3776;SPC IL E   -   564,067.702   313,843.491   MT 0.99997736   +0 06 39.0
AA3776;SPC IL E   - 1,850,612.12 1,029,668.19   sFT 0.99997736   +0 06 39.0
AA3776;UTM 16   - 4,622,396.340   402,978.512   MT 0.99971583   -0 46 37.3
AA3776
AA3776!   - Elev Factor x Scale Factor =   Combined Factor
AA3776!SPC IL E   -   0.99997154 x   0.99997736 =   0.99994890
AA3776!UTM 16   -   0.99997154 x   0.99971583 =   0.99968738
AA3776
AA3776_U.S. NATIONAL GRID SPATIAL ADDRESS: 16TDM0297822396(NAD 83)
AA3776
AA3776   SUPERSEDED SURVEY CONTROL
AA3776
AA3776 NAD 83(2007)- 41 44 50.88288(N)   088 10 00.82712(W) AD(2002.00) 0
AA3776 ELLIP H (02/10/07) 181.480 (m)   GP(2002.00)
AA3776 ELLIP H (02/03/05) 181.482 (m)   GP(   ) 4 2
AA3776 NAD 83(1997)- 41 44 50.88171(N)   088 10 00.82614(W) AD(   ) 1
AA3776 ELLIP H (10/21/99) 181.486 (m)   GP(   ) 4 1
AA3776 NAD 83(1997)- 41 44 50.88185(N)   088 10 00.82684(W) AD(   ) 1
AA3776 NAD 83(1986)- 41 44 50.88359(N)   088 10 00.83751(W) AD(   ) 1
AA3776
AA3776.Superseded values are not recommended for survey control.
AA3776
AA3776.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.
AA3776.See file dsdata.pdf to determine how the superseded data were derived.
AA3776
AA3776_MARKER: F = FLANGE-ENCASED ROD
AA3776_SETTING: 15 = METAL ROD DRIVEN INTO GROUND. SEE TEXT FOR ADDITIONAL
AA3776+WITH SETTING: INFORMATION.
AA3776_STAMPING: 525
AA3776_MARK LOGO: IL5980

AA3776_PROJECTION: RECESSED 8 CENTIMETERS
AA3776_MAGNETIC: I = MARKER IS A STEEL ROD
AA3776_STABILITY: B = PROBABLY HOLD POSITION/ELEVATION WELL
AA3776_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
AA3776+SATELLITE: SATELLITE OBSERVATIONS - October 28, 2013
AA3776_ROD/PIPE-DEPTH: 3.0 meters
AA3776_SLEEVE-DEPTH : 1.0 meters
AA3776
AA3776 HISTORY - Date Condition Report By
AA3776 HISTORY - 1994 MONUMENTED ASCPC
AA3776 HISTORY - 20071111 GOOD PATRIC
AA3776 HISTORY - 20131028 GOOD PATRIC
AA3776
AA3776 STATION DESCRIPTION
AA3776
AA3776'DESCRIBED BY AMERICAN SURVEYING CONSULTANTS PC 1994 (TB)
AA3776'FROM THE INTERSECTION OF ILLINOIS STATE HIGHWAY 59 AND 75TH STREET IN
AA3776'NAPERVILLE, PROCEED EAST ON 75TH STREET 2 MILESTO INTERSECTION OF 75TH
AA3776'STREET AND PLAINFIELD/NAPERVILLE ROAD (SOUTH) AND RICKERT DRIVE
AA3776'(NORTH) TO STATION IN THE SOUTHEAST QUARTER OF SAID INTERSECTION.
AA3776'STATION IS 62 FEETEAST OF EAST BACK OF CURB OF PLAINFIELD/NAPERVILLE
AA3776'ROAD AND 9 FEETSOUTH OF SOUTH BACK OF CURB OF 75TH STREET. STATION IS
AA3776'28.51 FEETSOUTHEAST OF + CHISELED VERTICALLY ON NORTH SIDE OF TRAFFIC
AA3776'LIGHT POLE, 48.18 FEETEAST OF + CHOPPED VERTICALLY ON SOUTH SIDE OF
AA3776'TRAFFIC SIGNAL LIGHT POLE, AND 38.29 FEETNORTHEAST OF + CHISELED ON
AA3776'NORTHEAST CORNER OF CONCRETE PAD. STATION IS STAINLESS STEEL ROD IN
AA3776'PVC SLEEVE WITH METAL CAP SET FLUSH WITH GROUND.
AA3776
AA3776 STATION RECOVERY (2007)
AA3776
AA3776'RECOVERY NOTE BY PATRICK ENGINEERING INCORPORATED 2007 (DFR)
AA3776'THE STATION IS IN NAPERVILLE, IL.
AA3776'
AA3776'THE STATION IS LOCATED EAST OF THE INTERSECTION OF 75TH STREET AND
AA3776'RICKERT DRIVE TO THE NORTH AND PLAINFIELD ROAD TO THE SOUTH.
AA3776'
AA3776'THE STATION IS 54.1 FT (16.5 M) SOUTH OF THE CENTER OF THE MEDIAN OF
AA3776'75TH STREET, 97.0 FT (29.6 M) EAST OF THE CENTERLINE OF PLAINFIELD
AA3776'ROAD, 7.6 FT (2.3 M) NORTH OF THE NORTH EDGE OF A PAVED PATH, AND 50.5
AA3776'FT (15.4 M) WEST OF AN ENTRANCE FOR A MOBIL GAS STATION. THE MONUMENT
AA3776'IS A ROD WITH A LID 0.5 FT (0.2 M) ABOVE THE ROAD SURFACE AND IS NOT
AA3776'FERROMAGNETIC.
AA3776'
AA3776'NOTE--ROD WAS DRIVEN 3.0 METERS TO REFUSAL.
AA3776
AA3776 STATION RECOVERY (2013)
AA3776
AA3776'RECOVERY NOTE BY PATRICK ENGINEERING INCORPORATED 2013 (SAL)
AA3776'RECOVERED AS DESCRIBED.

*** retrieval complete.

DATASHEETS Data Sheet Retrieval
The NGS Data Sheet

See file dsdata.pdf for more information about the datasheet.
PROGRAM = datasheet95, VERSION = 8.12.5.14
Starting Datasheet Retrieval...
1 National Geodetic Survey, Retrieval Date = APRIL 21, 2022
AJ2823 **********
AJ2823 DESIGNATION - COO DUP83 3A
AJ2823 PID - AJ2823
AJ2823 STATE/COUNTY- IL/DU PAGE
AJ2823 COUNTRY - US
AJ2823 USGS QUAD - ELMHURST (2018)
AJ2823
AJ2823 *CURRENT SURVEY CONTROL
AJ2823 _____
AJ2823* NAD 83(2011) POSITION- 41 59 34.68858(N) 087 57 45.05133(W) ADJUSTED
AJ2823* NAD 83(2011) ELLIP HT- 171.562 (meters) (06/27/12) ADJUSTED
AJ2823* NAD 83(2011) EPOCH - 2010.00
AJ2823* NAVD 88 ORTHO HEIGHT - 205.176 (meters) 673.15 (feet) ADJUSTED
AJ2823 _____
AJ2823 GEOID HEIGHT - -33.609 (meters) GEOID18
AJ2823 NAD 83(2011) X - 168,794.780 (meters) COMP
AJ2823 NAD 83(2011) Y - -4,744,647.442 (meters) COMP
AJ2823 NAD 83(2011) Z - 4,245,138.227 (meters) COMP
AJ2823 LAPLACE CORR - -1.82 (seconds) DEFLEC18
AJ2823 DYNAMIC HEIGHT - 205.107 (meters) 672.92 (feet) COMP
AJ2823 MODELED GRAVITY - 980,279.1 (mgal) NAVD 88
AJ2823
AJ2823 VERT ORDER - SECOND CLASS I
AJ2823
AJ2823 Network accuracy estimates per FGDC Geospatial Positioning Accuracy
AJ2823 Standards:
AJ2823 FGDC (95% conf, cm) Standard deviation (cm) CorrNE
AJ2823 Horiz Ellip SD_N SD_E SD_h (unitless)
AJ2823 ----------
AJ2823 NETWORK 0.26 0.45 0.11 0.10 0.23 0.03946353
AJ2823 ----------
AJ2823 Click here for local accuracies and other accuracy information.
AJ2823
AJ2823
AJ2823.The horizontal coordinates were established by GPS observations
AJ2823.and adjusted by the National Geodetic Survey in June 2012.
AJ2823
AJ2823.NAD 83(2011) refers to NAD 83 coordinates where the reference frame has
AJ2823.been affixed to the stable North American tectonic plate. See
AJ2823.NA2011 for more information.
AJ2823
AJ2823.The horizontal coordinates are valid at the epoch date displayed above
AJ2823.which is a decimal equivalence of Year/Month/Day.
AJ2823
AJ2823.The orthometric height was determined by differential leveling and
AJ2823.adjusted by the NATIONAL GEODETIC SURVEY

AJ2823.in May 2008.
AJ2823
AJ2823.No vertical observational check was made to the station.
AJ2823
AJ2823.Significant digits in the geoid height do not necessarily reflect accuracy.
AJ2823.GEOID18 height accuracy estimate available here.
AJ2823
AJ2823.Click photographs - Photos may exist for this station.
AJ2823
AJ2823.The X, Y, and Z were computed from the position and the ellipsoidal ht.
AJ2823
AJ2823.The Laplace correction was computed from DEFLEC18 derived deflections.
AJ2823
AJ2823.The ellipsoidal height was determined by GPS observations
AJ2823.and is referenced to NAD 83.
AJ2823
AJ2823.The dynamic height is computed by dividing the NAVD 88
AJ2823.geopotential number by the normal gravity value computed on the
AJ2823.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
AJ2823.degrees latitude (g = 980.6199 gals.).
AJ2823
AJ2823.The modeled gravity was interpolated from observed gravity values.
AJ2823
AJ2823. The following values were computed from the NAD 83(2011) position.
AJ2823
AJ2823; North East Units Scale Factor Converg.
AJ2823;SPC IL E - 591,388.200 330,725.279 MT 0.99998661 +0 14 53.1
AJ2823;SPC IL E - 1,940,246.12 1,085,054.52 sFT 0.99998661 +0 14 53.1
AJ2823;UTM 16 - 4,649,443.618 420,277.684 MT 0.99967820 -0 38 38.4
AJ2823
AJ2823! - Elev Factor x Scale Factor = Combined Factor
AJ2823!SPC IL E - 0.99997309 x 0.99998661 = 0.99995970
AJ2823!UTM 16 - 0.99997309 x 0.99967820 = 0.99965130
AJ2823
AJ2823: Primary Azimuth Mark Grid Az
AJ2823:SPC IL E - COO DUP83 3B 086 47 21.4
AJ2823:UTM 16 - COO DUP83 3B 087 40 52.9
AJ2823
AJ2823_U.S. NATIONAL GRID SPATIAL ADDRESS: 16TDM2027749443(NAD 83)
AJ2823
AJ2823|---|
AJ2823| PID Reference Object Distance Geod. Az |
AJ2823| dddmmss.s |
AJ2823| AJ2824 COO DUP83 3B APPROX. 1.0 KM 0870214.5 |
AJ2823|---|
AJ2823
AJ2823 SUPERSEDED SURVEY CONTROL
AJ2823
AJ2823 NAD 83(2007)- 41 59 34.68876(N) 087 57 45.05221(W) AD(2002.00) 0
AJ2823 ELLIP H (02/10/07) 171.581 (m) GP(2002.00)
AJ2823 NAD 83(1997)- 41 59 34.68869(N) 087 57 45.05174(W) AD( ) 1
AJ2823 ELLIP H (04/23/01) 171.592 (m) GP( ) 3 1
AJ2823 NAVD 88 205.18 (m) 673.2 (f) LEVELING 3
AJ2823 NAVD 88 (04/23/01) 205.1 (m) GEOID99 model used GPS OBS

AJ2823
AJ2823.Superseded values are not recommended for survey control.
AJ2823
AJ2823.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.
AJ2823.See file dsdata.pdf to determine how the superseded data were derived.
AJ2823
AJ2823_MARKER: F = FLANGE-ENCASED ROD
AJ2823_SETTING: 59 = STAINLESS STEEL ROD IN SLEEVE (10 FT.+)
AJ2823_STAMPING: COO-DUP83-3A
AJ2823_MARK LOGO: ILDT
AJ2823_PROJECTION: RECESSED 13 CENTIMETERS
AJ2823_MAGNETIC: A = STEEL ROD ADJACENT TO MONUMENT
AJ2823_STABILITY: B = PROBABLY HOLD POSITION/ELEVATION WELL
AJ2823_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
AJ2823+SATELLITE: SATELLITE OBSERVATIONS - March 24, 2017
AJ2823_ROD/PIPE-DEPTH: 3.7 meters
AJ2823_SLEEVE-DEPTH : 0.9 meters
AJ2823
AJ2823 HISTORY   - Date   Condition   Report By
AJ2823 HISTORY   - 20000612 MONUMENTED   SECI
AJ2823 HISTORY   - 20070924 GOOD   PATRIC
AJ2823 HISTORY   - 20110603 GOOD   GEOCAC
AJ2823 HISTORY   - 20110603 GOOD   GEOCAC
AJ2823 HISTORY   - 20170324 GOOD   ASMINC
AJ2823
AJ2823   STATION DESCRIPTION
AJ2823
AJ2823'DESCRIBED BY SMITH ENG CONS INC 2000 (MRF)
AJ2823'STATION IS LOCATED WITHIN THE CITY OF BENSENVILLE APPROXIMATELY
AJ2823'2.1 MI SOUTH OF ELK GROVE VILLAGE, 1.7 MI NORTHEAST OF WOODDALE IN
AJ2823'SECTION 3, T40N, R11E. TO REACH FROM THE JUNCTION OF IL RT 83 AND IL
AJ2823'RT 19, PROCEED NORTH ON RT 83 FOR 2.1 MI TO DEVON AVE, THEN
AJ2823'PROCEED WEST ON DEVON AVE 0.15 MI TO THE STATION LOCATED 32 FT
AJ2823'SOUTH OF THE EASTBOUND CENTERLINE. STATION IS 136 FT SOUTHWEST
AJ2823'OF A PK NAIL IN POWER POLE (PP), 134 FT SOUTH SOUTHEAST OF A PK NAIL
AJ2823'IN THE PP, 23 FT SOUTHEAST OF AN INLET ON DEVON AVE, 88 FT EAST OF
AJ2823'THE WEST END OF THE CHAIN LINK FENCE, 72 FT WEST OF THE JOG IN CHAIN
AJ2823'LINK FENCE, 2 FT NORTH OF THE CHAIN LINK FENCE, AND 2 FT NORTH OF AN
AJ2823'ORANGE FIBERGLASS WITNESS POST. STATION IS ACROSS DEVON AVE
AJ2823'FROM THE ENESCO BUILDING.   NOTE- ACCESS TO DATUM POINT THROUGH 6
AJ2823'INCH LOGO CAP. DATUM POINT IS 0.45 FT BELOW CAP. PK NAILS WERE SET
AJ2823'IN WOOD PHYSICAL TIES. (WB)
AJ2823
AJ2823   STATION RECOVERY (2007)
AJ2823
AJ2823'RECOVERY NOTE BY PATRICK ENGINEERING INCORPORATED 2007 (DFR)
AJ2823'FOUND AS DESCRIBED.
AJ2823
AJ2823   STATION RECOVERY (2011)
AJ2823
AJ2823'RECOVERY NOTE BY GEOCACHING 2011 (MTT)
AJ2823'RECOVERED IN GOOD CONDITION.
AJ2823
AJ2823   STATION RECOVERY (2011)

AJ2823
AJ2823'RECOVERY NOTE BY GEOCACHING 2011 (MTT)
AJ2823'RECOVERED IN GOOD CONDITION.
AJ2823
AJ2823 STATION RECOVERY (2017)
AJ2823
AJ2823'RECOVERY NOTE BY ADVANCED SURVEYING AND MAPPING 2017 (CSM)
AJ2823'RECOVERED IN GOOD CONDITION.

*** retrieval complete.
Elapsed Time = 00:00:03

DATASHEETS Data Sheet Retrieval
The NGS Data Sheet

See file dsdata.pdf for more information about the datasheet.
PROGRAM = datasheet95, VERSION = 8.12.5.14
Starting Datasheet Retrieval...
1 National Geodetic Survey, Retrieval Date = APRIL 21, 2022
MF1258 ***
MF1258 DESIGNATION - LEMONT 103
MF1258 PID - MF1258
MF1258 STATE/COUNTY- IL/DU PAGE
MF1258 COUNTRY - US
MF1258 USGS QUAD - ROMEOVILLE (2018)
MF1258
MF1258 *CURRENT SURVEY CONTROL
MF1258 _____
MF1258* NAD 83(2011) POSITION- 41 42 01.26175(N) 088 00 21.93716(W) ADJUSTED
MF1258* NAD 83(2011) ELLIP HT- 194.683 (meters) (06/27/12) ADJUSTED
MF1258* NAD 83(2011) EPOCH - 2010.00
MF1258* NAVD 88 ORTHO HEIGHT - 227.882 (meters) 747.64 (feet) ADJUSTED
MF1258 _____
MF1258 GEOID HEIGHT - -33.216 (meters) GEOID18
MF1258 NAD 83(2011) X - 165,940.970 (meters) COMP
MF1258 NAD 83(2011) Y - -4,766,461.993 (meters) COMP
MF1258 NAD 83(2011) Z - 4,220,941.742 (meters) COMP
MF1258 LAPLACE CORR - -1.49 (seconds) DEFLEC18
MF1258 DYNAMIC HEIGHT - 227.799 (meters) 747.37 (feet) COMP
MF1258 MODELED GRAVITY - 980,255.4 (mgal) NAVD 88
MF1258
MF1258 VERT ORDER - SECOND CLASS I
MF1258
MF1258 Network accuracy estimates per FGDC Geospatial Positioning Accuracy
MF1258 Standards:
MF1258 FGDC (95% conf, cm) Standard deviation (cm) CorrNE
MF1258 Horiz Ellip SD_N SD_E SD_h (unitless)
MF1258 ----------
MF1258 NETWORK 0.56 0.90 0.24 0.21 0.46 0.27148886
MF1258 ----------
MF1258 Click here for local accuracies and other accuracy information.
MF1258
MF1258
MF1258.The horizontal coordinates were established by GPS observations
MF1258.and adjusted by the National Geodetic Survey in June 2012.
MF1258
MF1258.NAD 83(2011) refers to NAD 83 coordinates where the reference frame has
MF1258.been affixed to the stable North American tectonic plate. See
MF1258.NA2011 for more information.
MF1258
MF1258.The horizontal coordinates are valid at the epoch date displayed above
MF1258.which is a decimal equivalence of Year/Month/Day.
MF1258
MF1258.The orthometric height was determined by differential leveling and
MF1258.adjusted by the NATIONAL GEODETIC SURVEY

MF1258.in June 1991.
MF1258
MF1258.Significant digits in the geoid height do not necessarily reflect accuracy.
MF1258.GEOID18 height accuracy estimate available here.
MF1258
MF1258.Click photographs - Photos may exist for this station.
MF1258
MF1258.The X, Y, and Z were computed from the position and the ellipsoidal ht.
MF1258
MF1258.The Laplace correction was computed from DEFLEC18 derived deflections.
MF1258
MF1258.The ellipsoidal height was determined by GPS observations
MF1258.and is referenced to NAD 83.
MF1258
MF1258.The dynamic height is computed by dividing the NAVD 88
MF1258.geopotential number by the normal gravity value computed on the
MF1258.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
MF1258.degrees latitude (g = 980.6199 gals.).
MF1258
MF1258.The modeled gravity was interpolated from observed gravity values.
MF1258
MF1258. The following values were computed from the NAD 83(2011) position.
MF1258
MF1258;   North   East   Units Scale Factor Converg.
MF1258;SPC IL E   -   558,873.002   327,238.217   MT 0.99998413   +0 13 03.7
MF1258;SPC IL E   - 1,833,569.17 1,073,614.05   sFT 0.99998413   +0 13 03.7
MF1258;UTM 16   - 4,616,996.316   416,287.451   MT 0.99968623   -0 40 09.6
MF1258
MF1258!   - Elev Factor x Scale Factor =   Combined Factor
MF1258!SPC IL E   -   0.99996947 x   0.99998413 =   0.99995360
MF1258!UTM 16   -   0.99996947 x   0.99968623 =   0.99965571
MF1258
MF1258_U.S. NATIONAL GRID SPATIAL ADDRESS: 16TDM1628716996(NAD 83)
MF1258
MF1258   SUPERSEDED SURVEY CONTROL
MF1258
MF1258 NAD 83(2007)- 41 42 01.26178(N)   088 00 21.93779(W) AD(2002.00) 1
MF1258 ELLIP H (07/03/08) 194.692 (m)   GP(2002.00) 2 2
MF1258 NAVD 88   227.88   (m)   747.6   (f) LEVELING   3
MF1258
MF1258.Superseded values are not recommended for survey control.
MF1258
MF1258.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.
MF1258.See file dsdata.pdf to determine how the superseded data were derived.
MF1258
MF1258_MARKER: DD = SURVEY DISK
MF1258_SETTING: 50 = ALUMINUM ALLOY ROD W/O SLEEVE (10 FT.+)
MF1258_MARK LOGO: IL-043
MF1258_PROJECTION: FLUSH
MF1258_MAGNETIC: I = MARKER IS A STEEL ROD
MF1258_STABILITY: B = PROBABLY HOLD POSITION/ELEVATION WELL
MF1258_SATELLITE: THE SITE LOCATION WAS REPORTED AS NOT SUITABLE FOR
MF1258+SATELLITE: SATELLITE OBSERVATIONS - March 05, 2015
MF1258

MF1258 HISTORY - Date Condition Report By
MF1258 HISTORY - 1983 MONUMENTED MARCHE
MF1258 HISTORY - 19960420 POOR USPSQD
MF1258 HISTORY - 20050611 MARK NOT FOUND GEOCAC
MF1258 HISTORY - 20061119 GOOD GEOCAC
MF1258 HISTORY - 20071115 GOOD PATRIC
MF1258 HISTORY - 20090321 GOOD GEOCAC
MF1258 HISTORY - 20100130 GOOD GEOCAC
MF1258 HISTORY - 20150305 GOOD ASMINC
MF1258
MF1258 STATION DESCRIPTION
MF1258
MF1258'DESCRIBED BY MARCHESE AND SONS 1983
MF1258'2.0 MI NORTH FROM LEMONT.
MF1258'2.0 MILES NORTH OF LEMONT, 1.25 MILES SOUTH ALONG LEMONT ROAD FROM THE
MF1258'JUNCTION OF INTERSTATE 55 TO MARK ON LEFT, AT THE NORTHEAST CORNER OF
MF1258'A T-INTERSECTION WITH 103RD STREET, 30.0 FEET EAST OF LEMONT ROAD EAST
MF1258'EDGE OF PAVEMENT, AND 50.0 FEET NORTH OF ARGONNE NATIONAL LABORATORY
MF1258'OCCUPIED SOUTH LINE, AN ALUMINUM ALLOY ROD DRIVEN 10.0 FEET AND
MF1258'ENCASED WITH PLASTIC SLEEVE AND CAP.
MF1258
MF1258 STATION RECOVERY (1996)
MF1258
MF1258'RECOVERY NOTE BY US POWER SQUADRON 1996
MF1258'MARK RECOVERED IN POOR CONDITION.
MF1258
MF1258 STATION RECOVERY (2005)
MF1258
MF1258'RECOVERY NOTE BY GEOCACHING 2005 (KMP)
MF1258'GARMIN GPS 72 COORDINATES LED TO A GRASSY AREA BELONGING TO A 'GAS
MF1258'CITY' GAS STATION WHICH HAD BEEN BUILT ABOUT 15 MONTHS AGO. HOWEVER,
MF1258'THIS AREA IS THE NORTHWEST CORNER OF THE T-INTERSECTION, NOT THE
MF1258'NORTHEAST CORNER PER THE DESCRIPTION. MADE A CHECK OF ALL CORNERS AND
MF1258'ROADSIDES OF THE T-INTERSECTION WITH NO FINDINGS.
MF1258
MF1258 STATION RECOVERY (2006)
MF1258
MF1258'RECOVERY NOTE BY GEOCACHING 2006 (CT)
MF1258'TALLER, SEASONAL PRAIRIE GRASSES LIMIT THIS MARK'S VISIBILITY, BUT A
MF1258'WOODEN STICK WITH SURVEY TAPE CURRENTLY MARKS ITS LOCATION.
MF1258
MF1258 STATION RECOVERY (2007)
MF1258
MF1258'RECOVERY NOTE BY PATRICK ENGINEERING INCORPORATED 2007 (DFR)
MF1258'THE STATION IS IN LEMONT, IL.
MF1258'
MF1258'THE STATION IS LOCATED ALONG THE EAST SIDE OF LEMONT ROAD, NORTHEAST
MF1258'OF A T INTERSECTION WITH 103RD STREET.
MF1258'
MF1258'THE STATION IS 63.0 FT (19.2 M) EAST OF THE CENTERLINE OF LEMONT ROAD,
MF1258'27.0 FT (8.2 M) EAST OF THE EAST EDGE OF PAVEMENT OF LEMONT ROAD, AND
MF1258'15.5 FT (4.7 M) NORTH OF THE EXTENSION OF THE CENTERLINE OF 103RD
MF1258'STREET. THE MONUMENT IS A 3.5 DISK ON AN ALUMINUM ROD WITH PVC
MF1258'SLEEVE, 0.25 FT (0.1 M) BELOW GRADE AND LEVEL WITH STREET SURFACE.

MF1258
MF1258 STATION RECOVERY (2009)
MF1258
MF1258'RECOVERY NOTE BY GEOCACHING 2009 (BPS)
MF1258'RECOVERED IN GOOD CONDITION.
MF1258
MF1258 STATION RECOVERY (2010)
MF1258
MF1258'RECOVERY NOTE BY GEOCACHING 2010 (L)
MF1258'RECOVERED IN GOOD CONDITION. THE ORIGINAL DESCRIPION IS ADEQUATE.
MF1258
MF1258 STATION RECOVERY (2015)
MF1258
MF1258'RECOVERY NOTE BY ADVANCED SURVEYING AND MAPPING 2015 (LEE)
MF1258'RECOVERED IN GOOD CONDITION.

*** retrieval complete.
Elapsed Time = 00:00:03

DATASHEETS Data Sheet Retrieval
The NGS Data Sheet

See file dsdata.pdf for more information about the datasheet.
PROGRAM = datasheet95, VERSION = 8.12.5.14
Starting Datasheet Retrieval...
1 National Geodetic Survey, Retrieval Date = APRIL 21, 2022
DI3576 ***
DI3576 DESIGNATION - LISLE 08
DI3576 PID - DI3576
DI3576 STATE/COUNTY- IL/DU PAGE
DI3576 COUNTRY - US
DI3576 USGS QUAD - WHEATON (2018)
DI3576
DI3576 *CURRENT SURVEY CONTROL
DI3576 _____
DI3576* NAD 83(2011) POSITION- 41 48 28.55415(N) 088 05 45.89310(W) ADJUSTED
DI3576* NAD 83(2011) ELLIP HT- 192.242 (meters) (06/27/12) ADJUSTED
DI3576* NAD 83(2011) EPOCH - 2010.00
DI3576* NAVD 88 ORTHO HEIGHT - 225.456 (meters) 739.68 (feet) ADJUSTED
DI3576 _____
DI3576 GEOID HEIGHT - -33.213 (meters) GEOID18
DI3576 NAD 83(2011) X - 158,190.211 (meters) COMP
DI3576 NAD 83(2011) Y - -4,758,761.881 (meters) COMP
DI3576 NAD 83(2011) Z - 4,229,854.365 (meters) COMP
DI3576 LAPLACE CORR - -1.85 (seconds) DEFLEC18
DI3576 DYNAMIC HEIGHT - 225.377 (meters) 739.42 (feet) COMP
DI3576 MODELED GRAVITY - 980,266.8 (mgal) NAVD 88
DI3576
DI3576 VERT ORDER - SECOND CLASS I
DI3576
DI3576 Network accuracy estimates per FGDC Geospatial Positioning Accuracy
DI3576 Standards:
DI3576 FGDC (95% conf, cm) Standard deviation (cm) CorrNE
DI3576 Horiz Ellip SD_N SD_E SD_h (unitless)
DI3576 ----------
DI3576 NETWORK 0.22 0.41 0.10 0.08 0.21 0.00808710
DI3576 ----------
DI3576 Click here for local accuracies and other accuracy information.
DI3576
DI3576
DI3576.The horizontal coordinates were established by GPS observations
DI3576.and adjusted by the National Geodetic Survey in June 2012.
DI3576
DI3576.NAD 83(2011) refers to NAD 83 coordinates where the reference frame has
DI3576.been affixed to the stable North American tectonic plate. See
DI3576.NA2011 for more information.
DI3576
DI3576.The horizontal coordinates are valid at the epoch date displayed above
DI3576.which is a decimal equivalence of Year/Month/Day.
DI3576
DI3576.The orthometric height was determined by differential leveling and
DI3576.adjusted by the NATIONAL GEODETIC SURVEY

DI3576.in May 2008.
DI3576
DI3576.Significant digits in the geoid height do not necessarily reflect accuracy.
DI3576.GEOID18 height accuracy estimate available here.
DI3576
DI3576.Click photographs - Photos may exist for this station.
DI3576
DI3576.The X, Y, and Z were computed from the position and the ellipsoidal ht.
DI3576
DI3576.The Laplace correction was computed from DEFLEC18 derived deflections.
DI3576
DI3576.The ellipsoidal height was determined by GPS observations
DI3576.and is referenced to NAD 83.
DI3576
DI3576.The dynamic height is computed by dividing the NAVD 88
DI3576.geopotential number by the normal gravity value computed on the
DI3576.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
DI3576.degrees latitude (g = 980.6199 gals.).
DI3576
DI3576.The modeled gravity was interpolated from observed gravity values.
DI3576
DI3576. The following values were computed from the NAD 83(2011) position.
DI3576
DI3576; North East Units Scale Factor Converg.
DI3576;SPC IL E - 570,797.056 319,715.015 MT 0.99997978 +0 09 29.4
DI3576;SPC IL E - 1,872,690.01 1,048,931.68 sFT 0.99997978 +0 09 29.4
DI3576;UTM 16 - 4,629,032.060 408,952.054 MT 0.99970201 -0 43 50.7
DI3576
DI3576! - Elev Factor x Scale Factor = Combined Factor
DI3576!SPC IL E - 0.99996985 x 0.99997978 = 0.99994963
DI3576!UTM 16 - 0.99996985 x 0.99970201 = 0.99967187
DI3576
DI3576_U.S. NATIONAL GRID SPATIAL ADDRESS: 16TDM0895229032(NAD 83)
DI3576
DI3576 SUPERSEDED SURVEY CONTROL
DI3576
DI3576 NAD 83(2007)- 41 48 28.55414(N) 088 05 45.89392(W) AD(2002.00) 1
DI3576 ELLIP H (07/03/08) 192.258 (m) GP(2002.00) 2 2
DI3576 NAD 83(1997)- 41 48 28.55371(N) 088 05 45.89362(W) AD( ) 1
DI3576 ELLIP H (02/07/07) 192.290 (m) GP( ) 4 1
DI3576 NAVD 88 225.46 (m) 739.7 (f) LEVELING 3
DI3576 NAVD 88 (02/07/07) 225.5 (m) GEOID03 model used GPS OBS
DI3576
DI3576.Superseded values are not recommended for survey control.
DI3576
DI3576.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.
DI3576.See file dsdata.pdf to determine how the superseded data were derived.
DI3576
DI3576_MARKER: F = FLANGE-ENCASED ROD
DI3576_SETTING: 15 = METAL ROD DRIVEN INTO GROUND. SEE TEXT FOR ADDITIONAL
DI3576+WITH SETTING: INFORMATION.
DI3576_MARK LOGO: IL4867
DI3576_PROJECTION: RECESSED 3 CENTIMETERS
DI3576_MAGNETIC: I = MARKER IS A STEEL ROD

DI3576_STABILITY: B = PROBABLY HOLD POSITION/ELEVATION WELL
DI3576_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
DI3576+SATELLITE: SATELLITE OBSERVATIONS - September 10, 2015
DI3576_ROD/PIPE-DEPTH: 3.0 meters
DI3576_SLEEVE-DEPTH : 0.9 meters
DI3576
DI3576 HISTORY - Date Condition Report By
DI3576 HISTORY - UNK MONUMENTED RUETTI
DI3576 HISTORY - 20061102 GOOD RUETTI
DI3576 HISTORY - 20071109 GOOD PATRIC
DI3576 HISTORY - 20130116 GOOD GEOCAC
DI3576 HISTORY - 20150910 GOOD INDIV
DI3576
DI3576 STATION DESCRIPTION
DI3576
DI3576'DESCRIBED BY RUETTIGER AND TONELLI ASSOCIATES INC 2006 (RH)
DI3576'STATION IS LOCATED IN THE VILLAGE OF LISLE. TO REACH FROM THE
DI3576'JUNCTION OF US RT 34 AND IL RT 53, GO NORTH ON IL RT 53 0.5 MI (0.8
DI3576'KM) TO WARRENVILLE ROAD. TURN LEFT AND GO WEST ON SAID ROAD 1.0 MI
DI3576'(1.61 KM) TO STATION ON THE LEFT AT THE NORTHWEST CORNER OF THE
DI3576'ARBORETUM VILLAGES APARTMENT COMPLEX ON THE SOUTH SIDE OF SAID ROAD.
DI3576'STATION IS 110 FT (33.5 M) EAST OF THE CENTER OF THE ARBORETUM
DI3576'VILLAGES ENTRANCE, 1 FT (0.3 M) SOUTH OF THE SOUTH EDGE OF A SIDEWALK,
DI3576'22 FT (6.7 M) SOUTHEAST OF AN ALUMINUM LIGHT POLE, 7 FT (2.1 M) NORTH
DI3576'OF A PARKING LOT CURB, 56 FT (17.1 M) WEST OF A FIRE HYDRANT, AND 72
DI3576'FT (21.9 M) EAST OF THE STONE ARBORETUM VILLAGES SIGN. STATION IS THE
DI3576'TOP CENTER OF A STAINLESS STEEL ROD RECESSED 0.3 FT (0.1 M) BELOW
DI3576'GROUND IN A GREASE FILLED SLEEVE ENCASED IN A 6 INCH (15 CM) PVC PIPE
DI3576'WITH ALUMINUM LOGO CAP SURROUNDED BY CONCRETE.
DI3576
DI3576 STATION RECOVERY (2007)
DI3576
DI3576'RECOVERY NOTE BY PATRICK ENGINEERING INCORPORATED 2007 (DFR)
DI3576'THE STATION IS IN LISLE, IL.
DI3576'
DI3576'TO REACH THE STATION FROM THE INTERSECTION OF STH 53 AND WARRENVILLE
DI3576'ROAD, GO WEST ALONG WARRENVILLE ROAD FOR APPROXIMATELY 1.0 MI (1.6 KM)
DI3576'TO THE STATION ON THE LEFT. THE STATION IS LOCATED ALONG THE SOUTH
DI3576'SIDE OF WARRENVILLE ROAD, WEST OF THE INTERSECTION WITH YENDER AVENUE
DI3576'AND EAST OF THE INTERSECTION WITH CABOT DRIVE.
DI3576'
DI3576'THE STATION IS 680 FT (207.3 M) WEST OF THE CENTERLINE OF YENDER
DI3576'AVENUE, 51.0 FT (15.5 M) SOUTH OF THE CENTERLINE OF WARRENVILLE ROAD,
DI3576'56.7 FT (17.3 M) SOUTHWEST OF A FIRE HYDRANT, 22.2 FT (6.8 M)
DI3576'SOUTHEAST OF A LIGHT POLE, AND 1.0 FT (0.3 M) SOUTH OF THE SOUTH EDGE
DI3576'OF A SIDEWALK. THE STATION IS EAST OF AN ENTRANCE TO ARBORETUM
DI3576'VILLAGE APARTMENTS. THE MONUMENT IS A STAINLESS STEEL ROD IN CONCRETE
DI3576'WITH AN ALUMINUM ACCESS COVER.
DI3576
DI3576 STATION RECOVERY (2013)
DI3576
DI3576'RECOVERY NOTE BY GEOCACHING 2013 (RLM)
DI3576'RECOVERED IN GOOD CONDITION.
DI3576

DATASHEETS Data Sheet Retrieval
The NGS Data Sheet

See file dsdata.pdf for more information about the datasheet.
PROGRAM = datasheet95, VERSION = 8.12.5.14
Starting Datasheet Retrieval...
1 National Geodetic Survey, Retrieval Date = APRIL 21, 2022
DH8089 **********
DH8089 DESIGNATION - 95 7567 ME
DH8089 PID - DH8089
DH8089 STATE/COUNTY- IL/MERCER
DH8089 COUNTRY - US
DH8089 USGS QUAD - ALEDO EAST (2018)
DH8089
DH8089 *CURRENT SURVEY CONTROL
DH8089 _____
DH8089* NAD 83(2011) POSITION- 41 11 57.97706(N) 090 43 56.46347(W) ADJUSTED
DH8089* NAD 83(2011) ELLIP HT- 191.961 (meters) (06/27/12) ADJUSTED
DH8089* NAD 83(2011) EPOCH - 2010.00
DH8089* NAVD 88 ORTHO HEIGHT - 224.922 (meters) 737.93 (feet) ADJUSTED
DH8089 _____
DH8089 GEOID HEIGHT - -32.955 (meters) GEOID18
DH8089 NAD 83(2011) X - -61,430.553 (meters) COMP
DH8089 NAD 83(2011) Y - -4,805,782.886 (meters) COMP
DH8089 NAD 83(2011) Z - 4,179,240.201 (meters) COMP
DH8089 LAPLACE CORR - 0.79 (seconds) DEFLEC18
DH8089 DYNAMIC HEIGHT - 224.828 (meters) 737.62 (feet) COMP
DH8089 MODELED GRAVITY - 980,199.8 (mgal) NAVD 88
DH8089
DH8089 VERT ORDER - SECOND CLASS I
DH8089
DH8089 Network accuracy estimates per FGDC Geospatial Positioning Accuracy
DH8089 Standards:
DH8089 FGDC (95% conf, cm) Standard deviation (cm) CorrNE
DH8089 Horiz Ellip SD_N SD_E SD_h (unitless)
DH8089 ----------
DH8089 NETWORK 0.61 0.90 0.28 0.21 0.46 0.13754900
DH8089 ----------
DH8089 Click here for local accuracies and other accuracy information.
DH8089
DH8089
DH8089.The horizontal coordinates were established by GPS observations
DH8089.and adjusted by the National Geodetic Survey in June 2012.
DH8089
DH8089.NAD 83(2011) refers to NAD 83 coordinates where the reference frame has
DH8089.been affixed to the stable North American tectonic plate. See
DH8089.NA2011 for more information.
DH8089
DH8089.The horizontal coordinates are valid at the epoch date displayed above
DH8089.which is a decimal equivalence of Year/Month/Day.
DH8089
DH8089.The orthometric height was determined by differential leveling and
DH8089.adjusted by the NATIONAL GEODETIC SURVEY

DH8089.in July 2014.
DH8089
DH8089.Significant digits in the geoid height do not necessarily reflect accuracy.
DH8089.GEOID18 height accuracy estimate available here.
DH8089
DH8089.Click photographs - Photos may exist for this station.
DH8089
DH8089.The X, Y, and Z were computed from the position and the ellipsoidal ht.
DH8089
DH8089.The Laplace correction was computed from DEFLEC18 derived deflections.
DH8089
DH8089.The ellipsoidal height was determined by GPS observations
DH8089.and is referenced to NAD 83.
DH8089
DH8089.The dynamic height is computed by dividing the NAVD 88
DH8089.geopotential number by the normal gravity value computed on the
DH8089.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
DH8089.degrees latitude (g = 980.6199 gals.).
DH8089
DH8089.The modeled gravity was interpolated from observed gravity values.
DH8089
DH8089. The following values were computed from the NAD 83(2011) position.
DH8089
DH8089; North East Units Scale Factor Converg.
DH8089;SPC IL W - 503,327.269 652,552.486 MT 0.99996887 -0 22 21.4
DH8089;SPC IL W - 1,651,332.88 2,140,915.95 sFT 0.99996887 -0 22 21.4
DH8089;UTM 15 - 4,563,376.110 690,143.396 MT 1.00004498 +1 29 38.8
DH8089
DH8089! - Elev Factor x Scale Factor = Combined Factor
DH8089!SPC IL W - 0.99996989 x 0.99996887 = 0.99993876
DH8089!UTM 15 - 0.99996989 x 1.00004498 = 1.00001487
DH8089
DH8089_U.S. NATIONAL GRID SPATIAL ADDRESS: 15TXF9014363376(NAD 83)
DH8089
DH8089 SUPERSEDED SURVEY CONTROL
DH8089
DH8089 NAD 83(2007)- 41 11 57.97676(N) 090 43 56.46375(W) AD(2002.00) 1
DH8089 ELLIP H (04/17/09) 192.017 (m) GP(2002.00) 4 1
DH8089 NAD 83(1997)- 41 11 57.97665(N) 090 43 56.46335(W) AD( ) 1
DH8089 ELLIP H (02/22/06) 192.018 (m) GP( ) 4 1
DH8089 NAVD 88 (08/01/11) 224.9 (m) GEOID09 model used GPS OBS
DH8089 NAVD 88 (02/22/06) 224.9 (m) GEOID03 model used GPS OBS
DH8089
DH8089.Superseded values are not recommended for survey control.
DH8089
DH8089.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.
DH8089.See file dsdata.pdf to determine how the superseded data were derived.
DH8089
DH8089_MARKER: I = METAL ROD
DH8089_SETTING: 49 = STAINLESS STEEL ROD W/O SLEEVE (10 FT.+)
DH8089_STAMPING: 95 7567 ME
DH8089_MARK LOGO: ILDT
DH8089_PROJECTION: RECESSED 1 CENTIMETERS
DH8089_MAGNETIC: N = NO MAGNETIC MATERIAL

DH8089_STABILITY: B = PROBABLY HOLD POSITION/ELEVATION WELL
DH8089_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
DH8089+SATELLITE: SATELLITE OBSERVATIONS - April 17, 2013
DH8089_ROD/PIPE-DEPTH: 3.0 meters
DH8089
DH8089 HISTORY   - Date   Condition   Report By
DH8089 HISTORY   - 19950625 MONUMENTED   ILDT
DH8089 HISTORY   - 20051101 GOOD   ILDT
DH8089 HISTORY   - 20100501 GOOD   ILDT
DH8089 HISTORY   - 20130417 GOOD   ILDT
DH8089
DH8089   STATION DESCRIPTION
DH8089
DH8089'DESCRIBED BY ILLINOIS DEPARTMENT OF TRANSPORTATION 2005 (CW)
DH8089'THE STATION IS LOCATED IN THE SOUTHEAST QUAD OF THE INTERSECTION OF
DH8089'IL. 17 AND IL. 94 ON THE EAST SIDE OF ALEDO. THE STATION IS 24.44
DH8089'FEET SOUTHEAST OF A CHISELED X ON THE EAST SIDE OF A ROUND CONCRETE
DH8089'FOUNDATION BASE FOR A TRAFFIC SIGNAL MAST ARM LOCATED IN THE
DH8089'SOUTHEAST QUAD OF THE INTERSECTION, 54.90   FEET SOUTH OF THE
DH8089'CENTERLINE OF IL. 17, 85.80 FEET NORTHWEST OF THE NORTH FACE OF THE
DH8089'NORTH BLUE METAL POST FOR A WAL-MART SIGN, AND 75.55 FEET NORTHEAST
DH8089'OF THE NORTH FACE OF A METAL POLE FOR A ESDA WEATHER WARNING SIREN.
DH8089'THE STATION IS A STANDARD ALUMINUM SPIRE SET IN A PVC SLEEVE WITH A
DH8089'CAST ALUMINUM COVER, FLUSH WITH THE GROUND.
DH8089
DH8089   STATION RECOVERY (2010)
DH8089
DH8089'RECOVERY NOTE BY ILLINOIS DEPARTMENT OF TRANSPORTATION 2010 (CW)
DH8089'RECOVERED AS DESCRIBED
DH8089
DH8089   STATION RECOVERY (2013)
DH8089
DH8089'RECOVERY NOTE BY ILLINOIS DEPARTMENT OF TRANSPORTATION 2013 (JBR)
DH8089'RECOVERED AS DESCRIBED.

*** retrieval complete.
Elapsed Time = 00:00:04

DATASHEETS Data Sheet Retrieval
The NGS Data Sheet

See file dsdata.pdf for more information about the datasheet.
PROGRAM = datasheet95, VERSION = 8.12.5.14
Starting Datasheet Retrieval...
1 National Geodetic Survey, Retrieval Date = APRIL 21, 2022
LD0355 ***
LD0355 CBN - This is a Cooperative Base Network Control Station.
LD0355 DESIGNATION - A 57
LD0355 PID - LD0355
LD0355 STATE/COUNTY- IL/MCDONOUGH
LD0355 COUNTRY - US
LD0355 USGS QUAD - ADAIR (2018)
LD0355
LD0355 *CURRENT SURVEY CONTROL
LD0355 _____
LD0355* NAD 83(2011) POSITION- 40 28 58.38293(N) 090 29 42.10243(W) ADJUSTED
LD0355* NAD 83(2011) ELLIP HT- 167.240 (meters) (06/27/12) ADJUSTED
LD0355* NAD 83(2011) EPOCH - 2010.00
LD0355* NAVD 88 ORTHO HEIGHT - 200.405 (meters) 657.50 (feet) ADJUSTED
LD0355 _____
LD0355 GEOID HEIGHT - -33.180 (meters) GEOID18
LD0355 NAD 83(2011) X - -41,973.694 (meters) COMP
LD0355 NAD 83(2011) Y - -4,858,015.100 (meters) COMP
LD0355 NAD 83(2011) Z - 4,119,023.042 (meters) COMP
LD0355 LAPLACE CORR - -0.02 (seconds) DEFLEC18
LD0355 DYNAMIC HEIGHT - 200.308 (meters) 657.18 (feet) COMP
LD0355 MODELED GRAVITY - 980,136.0 (mgal) NAVD 88
LD0355
LD0355 VERT ORDER - SECOND CLASS 0
LD0355
LD0355 Network accuracy estimates per FGDC Geospatial Positioning Accuracy
LD0355 Standards:
LD0355 FGDC (95% conf, cm) Standard deviation (cm) CorrNE
LD0355 Horiz Ellip SD_N SD_E SD_h (unitless)
LD0355 ----------
LD0355 NETWORK 0.50 0.80 0.23 0.17 0.41 -0.10391298
LD0355 ----------
LD0355 Click here for local accuracies and other accuracy information.
LD0355
LD0355
LD0355.The horizontal coordinates were established by GPS observations
LD0355.and adjusted by the National Geodetic Survey in June 2012.
LD0355
LD0355.NAD 83(2011) refers to NAD 83 coordinates where the reference frame has
LD0355.been affixed to the stable North American tectonic plate. See
LD0355.NA2011 for more information.
LD0355
LD0355.The horizontal coordinates are valid at the epoch date displayed above
LD0355.which is a decimal equivalence of Year/Month/Day.
LD0355
LD0355.The orthometric height was determined by differential leveling and

LD0355.adjusted by the NATIONAL GEODETIC SURVEY
LD0355.in June 1991.
LD0355
LD0355.Significant digits in the geoid height do not necessarily reflect accuracy.
LD0355.GEOID18 height accuracy estimate available here.
LD0355
LD0355.Click photographs - Photos may exist for this station.
LD0355
LD0355.The X, Y, and Z were computed from the position and the ellipsoidal ht.
LD0355
LD0355.The Laplace correction was computed from DEFLEC18 derived deflections.
LD0355
LD0355.The ellipsoidal height was determined by GPS observations
LD0355.and is referenced to NAD 83.
LD0355
LD0355.The dynamic height is computed by dividing the NAVD 88
LD0355.geopotential number by the normal gravity value computed on the
LD0355.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
LD0355.degrees latitude (g = 980.6199 gals.).
LD0355
LD0355.The modeled gravity was interpolated from observed gravity values.
LD0355
LD0355. The following values were computed from the NAD 83(2011) position.
LD0355
LD0355;   North   East   Units Scale Factor Converg.
LD0355;SPC IL W   -   423,655.542   672,160.046   MT 0.99995071   -0 12 47.5
LD0355;SPC IL W   - 1,389,943.22 2,205,245.08   sFT 0.99995071   -0 12 47.5
LD0355;UTM 15   - 4,484,369.168   712,320.591   MT 1.00015493   +1 37 36.8
LD0355
LD0355!   - Elev Factor x Scale Factor =   Combined Factor
LD0355!SPC IL W   -   0.99997377 x   0.99995071 =   0.99992448
LD0355!UTM 15   -   0.99997377 x   1.00015493 =   1.00012869
LD0355
LD0355_U.S. NATIONAL GRID SPATIAL ADDRESS: 15TYE1232084369(NAD 83)
LD0355
LD0355   SUPERSEDED SURVEY CONTROL
LD0355
LD0355 NAD 83(2007)- 40 28 58.38317(N)   090 29 42.10307(W) AD(2002.00) 0
LD0355 ELLIP H (02/10/07) 167.265 (m)   GP(2002.00)
LD0355 ELLIP H (10/15/04) 167.257 (m)   GP(   ) 4 2
LD0355 NAD 83(1997)- 40 28 58.38294(N)   090 29 42.10271(W) AD(   ) B
LD0355 ELLIP H (07/17/98) 167.284 (m)   GP(   ) 4 1
LD0355 NAD 83(1986)- 40 28 58.39098(N)   090 29 42.10458(W) AD(   ) 1
LD0355 NAVD 88   200.41   (m)   657.5   (f) LEVELING   3
LD0355 NGVD 29 (??/??/92) 200.480 (m)   657.74   (f) ADJ UNCH   2 0
LD0355 NGVD 29   200.48   (m)   657.7   (f) LEVELING   3
LD0355
LD0355.Superseded values are not recommended for survey control.
LD0355
LD0355.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.
LD0355.See file dsdata.pdf to determine how the superseded data were derived.
LD0355
LD0355_MARKER: DB = BENCH MARK DISK
LD0355_SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT

LD0355_STAMPING: A 57 1935
LD0355_MARK LOGO: CGS
LD0355_PROJECTION: PROJECTING 20 CENTIMETERS
LD0355_MAGNETIC: N = NO MAGNETIC MATERIAL
LD0355_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO
LD0355+STABILITY: SURFACE MOTION
LD0355_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
LD0355+SATELLITE: SATELLITE OBSERVATIONS - April 14, 2021
LD0355
LD0355 HISTORY   - Date   Condition   Report By
LD0355 HISTORY   - 1935   MONUMENTED   CGS
LD0355 HISTORY   - 19901003 GOOD   NGS
LD0355 HISTORY   - 19970426 GOOD   NGS
LD0355 HISTORY   - 20090506 GOOD   IL-057
LD0355 HISTORY   - 20100501 GOOD   ILDT
LD0355 HISTORY   - 20121026 GOOD   GEOMET
LD0355 HISTORY   - 20210414 GOOD   ILDT
LD0355
LD0355   STATION DESCRIPTION
LD0355
LD0355'DESCRIBED BY COAST AND GEODETIC SURVEY 1935
LD0355'4.3 MI N FROM ADAIR.
LD0355'4.3 MILES NORTH ALONG THE CHICAGO, BURLINGTON AND QUINCY RAILROAD
LD0355'FROM THE STATION AT ADAIR, MCDONOUGH COUNTY, 14-1/2 POLES SOUTH
LD0355'OF MILEPOST 156, AT A ROAD CROSSING, 27 FEET NORTH OF THE
LD0355'CENTERLINE OF THE ROAD, 33 FEET EAST OF THE CENTERLINE OF THE
LD0355'EAST TRACK, 2 FEET WEST OF THE RIGHT-OF-WAY FENCE, AND 4 FEET
LD0355'LOWER THAN THE TRACK. A STANDARD DISK, STAMPED A 57 1935 AND
LD0355'SET IN THE TOP OF A CONCRETE POST.
LD0355
LD0355   STATION RECOVERY (1990)
LD0355
LD0355'RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1990
LD0355'STATION IS LOCATED ABOUT 15 KM (9.3 MI) EAST OF MACOMB, 7 KM (4.3 MI)
LD0355'NORTH OF ADAIR, 2 KM (1.2 MI) WEST-SOUTHWEST OF NEW PHILADELPHIA, AT
LD0355'THE JUNCTION OF A PAVED ROAD AND A RAILROAD TRACK, ON RAILROAD
LD0355'RIGHT-OF-WAY, ON THE SOUTH EDGE OF SECTION 22, T 6 N, R 1 W.
LD0355'OWNERSHIP--BURLINGTON NORTHERN RAILROAD.
LD0355'TO REACH FROM THE JUNCTION OF US HIGHWAY 136 AND STATE HIGHWAY 41
LD0355'(ABOUT 4 KM (2.5 MI) NORTH OF ADAIR), GO NORTH ON HIGHWAY 41 FOR 3.27
LD0355'KM (2.03 MI) TO AN OFFSET PAVED CROSSROAD. TURN RIGHT, EAST, ON ROAD
LD0355'1400 N FOR 0.82 KM (0.51 MI) TO THE TRACK AND THE STATION ON THE
LD0355'LEFT.
LD0355'STATION MARK IS SET IN THE TOP OF A 15-CM SQUARE CONCRETE POST
LD0355'PROJECTING 15 CM IN HIGH WEEDS. IT IS 10.0 M (32.8 FT) EAST OF THE
LD0355'EAST RAIL, 8.6 M (28.2 FT) NORTH OF THE ROAD CENTER, 1 M (3.3 FT)
LD0355'LOWER THAN THE ROAD CENTER, 0.2 M (0.7 FT) SOUTH OF A FIBERGLASS
LD0355'WITNESS POST, 2.1 M (6.9 FT) NORTH-NORTHWEST OF A CONCRETE FENCE
LD0355'CORNER POST, AND 0.9 M (3.0 FT) WEST OF A FENCE.
LD0355
LD0355   STATION RECOVERY (1997)
LD0355
LD0355'RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1997 (RKB)
LD0355'THE STATION IS LOCATED ABOUT 9.3 MI (15.0 KM) EAST OF MACOMB, 4.3 MI

LD0355'(6.9 KM) NORTH OF ADAIR, AND 1.2 MI (1.9 KM) WEST-SOUTHWEST OF NEW
LD0355'PHILADELPHIA. TO REACH FROM THE JUNCTION OF U.S. HIGHWAY 136 AND
LD0355'STATE ROUTE 41 ABOUT 2.5 MI (4.0 KM) NORTH OF ADAIR, GO NORTH ON ROUTE
LD0355'41 FOR 2.0 MI (3.2 KM) TO AN OFFSET CROSSROAD. TURN RIGHT, EAST, ON
LD0355'ROAD 1400N FOR 0.5 MI (0.8 KM) TO A RAILROAD CROSSING AND THE STATION
LD0355'ON THE LEFT IN THE NORTHEAST QUADRANT, 10.0 M (32.8 FT) EAST OF THE
LD0355'EAST RAIL, 8.6 M (28.2 FT) NORTH OF THE CENTER OF THE ROAD, 1 M (3.3
LD0355'FT) LOWER THAN THE ROAD, 2.1 M (6.9 FT) NORTH-NORTHWEST OF A CONCRETE
LD0355'FENCE CORNER POST, 0.9 M (3.0 FT) WEST OF A FENCE, AND 0.2 M (0.7 FT)
LD0355'SOUTH OF A FIBERGLASS WITNESS POST.
LD0355
LD0355 STATION RECOVERY (2009)
LD0355
LD0355'RECOVERY NOTE BY FULTON COUNTY ILLINOIS 2009 (DEW)
LD0355'RECOVERED AS DESCRIBED
LD0355
LD0355 STATION RECOVERY (2010)
LD0355
LD0355'RECOVERY NOTE BY ILLINOIS DEPARTMENT OF TRANSPORTATION 2010 (CW)
LD0355'RECOVERED AS DESCRIBED
LD0355
LD0355 STATION RECOVERY (2012)
LD0355
LD0355'RECOVERY NOTE BY GEOMETRICS GPS INCORPORATED 2012 (DAR)
LD0355'RECOVERED IN GOOD CONDITION.
LD0355
LD0355 STATION RECOVERY (2021)
LD0355
LD0355'RECOVERY NOTE BY ILLINOIS DEPARTMENT OF TRANSPORTATION 2021 (DL)
LD0355'RECOVERED IN GOOD CONDITION.

*** retrieval complete.
Elapsed Time = 00:00:03

DATASHEETS Data Sheet Retrieval
The NGS Data Sheet

See file dsdata.pdf for more information about the datasheet.
PROGRAM = datasheet95, VERSION = 8.12.5.14
Starting Datasheet Retrieval...
1 National Geodetic Survey, Retrieval Date = APRIL 21, 2022
LC0668 **********
LC0668 DESIGNATION - A 172
LC0668 PID - LC0668
LC0668 STATE/COUNTY- IL/MCLEAN
LC0668 COUNTRY - US
LC0668 USGS QUAD - GRIDLEY (2018)
LC0668
LC0668 *CURRENT SURVEY CONTROL
LC0668 _____
LC0668* NAD 83(2011) POSITION- 40 39 00.79835(N) 088 59 53.90687(W) ADJUSTED
LC0668* NAD 83(2011) ELLIP HT- 192.393 (meters) (06/27/12) ADJUSTED
LC0668* NAD 83(2011) EPOCH - 2010.00
LC0668* NAVD 88 ORTHO HEIGHT - 224.562 (meters) 736.75 (feet) ADJUSTED
LC0668 _____
LC0668 GEOID HEIGHT - -32.157 (meters) GEOID18
LC0668 NAD 83(2011) X - 84,719.777 (meters) COMP
LC0668 NAD 83(2011) Y - -4,845,390.095 (meters) COMP
LC0668 NAD 83(2011) Z - 4,133,155.703 (meters) COMP
LC0668 LAPLACE CORR - 1.32 (seconds) DEFLEC18
LC0668 DYNAMIC HEIGHT - 224.459 (meters) 736.41 (feet) COMP
LC0668 MODELED GRAVITY - 980,163.4 (mgal) NAVD 88
LC0668
LC0668 VERT ORDER - FIRST CLASS I
LC0668
LC0668 Network accuracy estimates per FGDC Geospatial Positioning Accuracy
LC0668 Standards:
LC0668 FGDC (95% conf, cm) Standard deviation (cm) CorrNE
LC0668 Horiz Ellip SD_N SD_E SD_h (unitless)
LC0668 ----------
LC0668 NETWORK 0.76 1.18 0.34 0.27 0.60 0.08815050
LC0668 ----------
LC0668 Click here for local accuracies and other accuracy information.
LC0668
LC0668
LC0668.The horizontal coordinates were established by GPS observations
LC0668.and adjusted by the National Geodetic Survey in June 2012.
LC0668
LC0668.NAD 83(2011) refers to NAD 83 coordinates where the reference frame has
LC0668.been affixed to the stable North American tectonic plate. See
LC0668.NA2011 for more information.
LC0668
LC0668.The horizontal coordinates are valid at the epoch date displayed above
LC0668.which is a decimal equivalence of Year/Month/Day.
LC0668
LC0668.The orthometric height was determined by differential leveling and
LC0668.adjusted by the NATIONAL GEODETIC SURVEY

LC0668.in June 1991.
LC0668
LC0668.Significant digits in the geoid height do not necessarily reflect accuracy.
LC0668.GEOID18 height accuracy estimate available here.
LC0668
LC0668.Click photographs - Photos may exist for this station.
LC0668
LC0668.The X, Y, and Z were computed from the position and the ellipsoidal ht.
LC0668
LC0668.The Laplace correction was computed from DEFLEC18 derived deflections.
LC0668
LC0668.The ellipsoidal height was determined by GPS observations
LC0668.and is referenced to NAD 83.
LC0668
LC0668.The dynamic height is computed by dividing the NAVD 88
LC0668.geopotential number by the normal gravity value computed on the
LC0668.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
LC0668.degrees latitude (g = 980.6199 gals.).
LC0668
LC0668.The modeled gravity was interpolated from observed gravity values.
LC0668
LC0668. The following values were computed from the NAD 83(2011) position.
LC0668
LC0668; North East Units Scale Factor Converg.
LC0668;SPC IL E - 442,412.324 243,758.772 MT 1.00001392 -0 25 59.5
LC0668;SPC IL E - 1,451,481.10 799,731.90 sFT 1.00001392 -0 25 59.5
LC0668;UTM 16 - 4,501,849.273 331,048.728 MT 0.99995136 -1 18 07.5
LC0668
LC0668! - Elev Factor x Scale Factor = Combined Factor
LC0668!SPC IL E - 0.99996982 x 1.00001392 = 0.99998374
LC0668!UTM 16 - 0.99996982 x 0.99995136 = 0.99992118
LC0668
LC0668_U.S. NATIONAL GRID SPATIAL ADDRESS: 16TCL3104801849(NAD 83)
LC0668
LC0668 SUPERSEDED SURVEY CONTROL
LC0668
LC0668 NAD 83(2007)- 40 39 00.79844(N) 088 59 53.90800(W) AD(2002.00) 0
LC0668 ELLIP H (02/10/07) 192.424 (m) GP(2002.00)
LC0668 ELLIP H (02/03/05) 192.438 (m) GP( ) 4 2
LC0668 NAD 83(1997)- 40 39 00.79833(N) 088 59 53.90786(W) AD( ) 1
LC0668 ELLIP H (03/04/03) 192.422 (m) GP( ) 4 2
LC0668 NAVD 88 224.56 (m) 736.7 (f) LEVELING 3
LC0668 NGVD 29 (??/??/92) 224.600 (m) 736.88 (f) ADJ UNCH 1 1
LC0668
LC0668.Superseded values are not recommended for survey control.
LC0668
LC0668.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.
LC0668.See file dsdata.pdf to determine how the superseded data were derived.
LC0668
LC0668_MARKER: DB = BENCH MARK DISK
LC0668_SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT
LC0668_STAMPING: A 172 1954
LC0668_MARK LOGO: CGS
LC0668_MAGNETIC: N = NO MAGNETIC MATERIAL

LC0668_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO
LC0668+STABILITY: SURFACE MOTION
LC0668_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
LC0668+SATELLITE: SATELLITE OBSERVATIONS - May 01, 2010
LC0668
LC0668 HISTORY   - Date   Condition   Report By
LC0668 HISTORY   - 1954   MONUMENTED   CGS
LC0668 HISTORY   - 1969   GOOD   CGS
LC0668 HISTORY   - 200205 GOOD   ASCPC
LC0668 HISTORY   - 20021013 GOOD   USPSQD
LC0668 HISTORY   - 20100501 GOOD   ILDT
LC0668
LC0668   STATION DESCRIPTION
LC0668
LC0668'DESCRIBED BY COAST AND GEODETIC SURVEY 1969
LC0668'6 MI S FROM EL PASO.
LC0668'ABOUT 5.95 MILES SOUTH ALONG THE ILLINOIS CENTRAL RAILROAD FROM
LC0668'THE STATION AT EL PASO, 128 FEET NORTHWEST OF THE CENTER OF A
LC0668'CROSSING OF THE RAILROAD AND A PAVED ROAD, 94 FEET WEST OF THE
LC0668'WEST RAIL, 48 FEET NORTH OF THE CENTER LINE OF THE ROAD, 41 FEET
LC0668'SOUTHWEST OF A TELEPHONE POLE, 34 FEET NORTHWEST OF A TELEPHONE
LC0668'POLE, 3 FEET EAST OF A FENCE, 1.0 FOOT NORTHWEST OF A METAL
LC0668'WITNESS POST, ABOUT 1 1/2 FEET BELOW THE LEVEL OF THE TRACK, AND
LC0668'SET IN THE TOP OF A CONCRETE POST WHICH PROJECTS 3 INCHES ABOVE
LC0668'THE SURFACE OF THE GROUND. SEC 4, T25N, R2E
LC0668
LC0668   STATION RECOVERY (2002)
LC0668
LC0668'RECOVERY NOTE BY AMERICAN SURVEYING CONSULTANTS PC 2002
LC0668'RECOVERED AS DESCRIBED
LC0668'
LC0668
LC0668   STATION RECOVERY (2002)
LC0668
LC0668'RECOVERY NOTE BY US POWER SQUADRON 2002 (GEM)
LC0668'STEEL WITNESS POST INPLACE WITH SHOTGUN DAMAGE. ICG RAILROAD IS
LC0668'ABANDOND WITH TRACKS REMOVED. LAND RETURNED TO PRIVATE OWNERSHIP IN
LC0668'1988.
LC0668
LC0668   STATION RECOVERY (2010)
LC0668
LC0668'RECOVERY NOTE BY ILLINOIS DEPARTMENT OF TRANSPORTATION 2010 (CW)
LC0668'RECOVERED AS DESCRIBED

*** retrieval complete.
Elapsed Time = 00:00:04

DATASHEETS Data Sheet Retrieval
The NGS Data Sheet

See file dsdata.pdf for more information about the datasheet.
PROGRAM = datasheet95, VERSION = 8.12.5.14
Starting Datasheet Retrieval...
1 National Geodetic Survey, Retrieval Date = APRIL 21, 2022
LC0386 **********
LC0386 DESIGNATION - B 165
LC0386 PID - LC0386
LC0386 STATE/COUNTY- IL/MCLEAN
LC0386 COUNTRY - US
LC0386 USGS QUAD - LE ROY (2018)
LC0386
LC0386 *CURRENT SURVEY CONTROL
LC0386 _____
LC0386* NAD 83(2011) POSITION- 40 21 25.35722(N) 088 47 34.83503(W) NO CHECK
LC0386* NAD 83(2011) ELLIP HT- 210.669 (meters) (06/27/12) NO CHECK
LC0386* NAD 83(2011) EPOCH - 2010.00
LC0386* NAVD 88 ORTHO HEIGHT - 242.625 (meters) 796.01 (feet) ADJUSTED
LC0386 _____
LC0386 GEOID HEIGHT - -31.937 (meters) GEOID18
LC0386 NAD 83(2011) X - 102,526.527 (meters) COMP
LC0386 NAD 83(2011) Y - -4,866,210.126 (meters) COMP
LC0386 NAD 83(2011) Z - 4,108,412.560 (meters) COMP
LC0386 LAPLACE CORR - 0.92 (seconds) DEFLEC18
LC0386 DYNAMIC HEIGHT - 242.508 (meters) 795.63 (feet) COMP
LC0386 MODELED GRAVITY - 980,139.8 (mgal) NAVD 88
LC0386
LC0386 VERT ORDER - FIRST CLASS II
LC0386
LC0386 Network accuracy estimates per FGDC Geospatial Positioning Accuracy
LC0386 Standards:
LC0386 FGDC (95% conf, cm) Standard deviation (cm) CorrNE
LC0386 Horiz Ellip SD_N SD_E SD_h (unitless)
LC0386 ----------
LC0386 NETWORK 0.99 2.94 0.43 0.37 1.50 0.16235659
LC0386 ----------
LC0386 Click here for local accuracies and other accuracy information.
LC0386
LC0386
LC0386.The horizontal coordinates were established by GPS observations
LC0386.and adjusted by the National Geodetic Survey in June 2012.
LC0386
LC0386.NAD 83(2011) refers to NAD 83 coordinates where the reference frame has
LC0386.been affixed to the stable North American tectonic plate. See
LC0386.NA2011 for more information.
LC0386
LC0386.The horizontal coordinates are valid at the epoch date displayed above
LC0386.which is a decimal equivalence of Year/Month/Day.
LC0386
LC0386.No horizontal observational check was made to the station.
LC0386.

LC0386.The orthometric height was determined by differential leveling and
LC0386.adjusted by the NATIONAL GEODETIC SURVEY
LC0386.in June 1991.
LC0386
LC0386.Significant digits in the geoid height do not necessarily reflect accuracy.
LC0386.GEOID18 height accuracy estimate available here.
LC0386
LC0386.Click photographs - Photos may exist for this station.
LC0386
LC0386.The X, Y, and Z were computed from the position and the ellipsoidal ht.
LC0386
LC0386.The Laplace correction was computed from DEFLEC18 derived deflections.
LC0386
LC0386.The ellipsoidal height was determined by GPS observations
LC0386.and is referenced to NAD 83.
LC0386
LC0386.The dynamic height is computed by dividing the NAVD 88
LC0386.geopotential number by the normal gravity value computed on the
LC0386.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
LC0386.degrees latitude (g = 980.6199 gals.).
LC0386
LC0386.The modeled gravity was interpolated from observed gravity values.
LC0386
LC0386. The following values were computed from the NAD 83(2011) position.
LC0386
LC0386; North East Units Scale Factor Converg.
LC0386;SPC IL E - 409,746.191 260,952.577 MT 0.99999376 -0 17 51.6
LC0386;SPC IL E - 1,344,308.96 856,141.91 sFT 0.99999376 -0 17 51.6
LC0386;UTM 16 - 4,468,929.744 347,745.283 MT 0.99988536 -1 09 40.6
LC0386
LC0386! - Elev Factor x Scale Factor = Combined Factor
LC0386!SPC IL E - 0.99996695 x 0.99999376 = 0.99996071
LC0386!UTM 16 - 0.99996695 x 0.99988536 = 0.99985232
LC0386
LC0386_U.S. NATIONAL GRID SPATIAL ADDRESS: 16TCK4774568929(NAD 83)
LC0386
LC0386 SUPERSEDED SURVEY CONTROL
LC0386
LC0386 NAD 83(2007)- 40 21 25.35717(N) 088 47 34.83588(W) AD(2002.00) 0
LC0386 ELLIP H (02/10/07) 210.686 (m) GP(2002.00)
LC0386 ELLIP H (09/22/04) 210.698 (m) GP( ) 4 1
LC0386 NAD 83(1997)- 40 21 25.35724(N) 088 47 34.83563(W) AD( ) 1
LC0386 ELLIP H (11/27/02) 210.686 (m) GP( ) 4 1
LC0386 NAD 83(1997)- 40 21 25.35717(N) 088 47 34.83567(W) AD( ) 1
LC0386 ELLIP H (03/18/02) 210.686 (m) GP( ) 4 1
LC0386 NAVD 88 242.63 (m) 796.0 (f) LEVELING 3
LC0386 NGVD 29 (??/??/92) 242.681 (m) 796.20 (f) ADJ UNCH 1 2
LC0386
LC0386.Superseded values are not recommended for survey control.
LC0386
LC0386.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.
LC0386.See file dsdata.pdf to determine how the superseded data were derived.
LC0386
LC0386_MARKER: DB = BENCH MARK DISK

LC0386_SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT
LC0386_STAMPING: B 165 1954
LC0386_MARK LOGO: CGS
LC0386_PROJECTION: RECESSED 5 CENTIMETERS
LC0386_MAGNETIC: N = NO MAGNETIC MATERIAL
LC0386_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO
LC0386+STABILITY: SURFACE MOTION
LC0386_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
LC0386+SATELLITE: SATELLITE OBSERVATIONS - August 07, 2012
LC0386
LC0386 HISTORY - Date Condition Report By
LC0386 HISTORY - 1954 MONUMENTED CGS
LC0386 HISTORY - 1959 GOOD CGS
LC0386 HISTORY - 1986 GOOD NGS
LC0386 HISTORY - 20010501 GOOD WOOLPT
LC0386 HISTORY - 20120807 GOOD ILDT
LC0386
LC0386 STATION DESCRIPTION
LC0386
LC0386'DESCRIBED BY COAST AND GEODETIC SURVEY 1959
LC0386'1.6 MI NW FROM LE ROY.
LC0386'ABOUT 1.55 MILES NORTHWEST ALONG THE NEW YORK CENTRAL RAILROAD
LC0386'FROM THE STATION AT LE ROY, AT A NORTH-SOUTH GRAVEL ROAD CROSSING,
LC0386'46 FEET NORTHEAST OF THE NORTHEAST RAIL, 76 FEET NORTH-NORTHWEST
LC0386'OF THE CENTER OF THE CROSSING, 29 FEET WEST OF THE CENTER LINE OF
LC0386'THE ROAD, 79 FEET NORTHEAST AND ACROSS THE TRACK FROM A TELEPHONE
LC0386'POLE NUMBER 152/10, 5 1/2 FEET WEST OF A FENCE CORNER, 2 FEET
LC0386'SOUTHWEST OF A FENCE LINE, 2 FEET SOUTHEAST OF A WHITE WOODEN
LC0386'WITNESS POST, ABOUT 1 FOOT ABOVE THE LEVEL OF THE TRACK AND SET
LC0386'IN THE TOP OF A CONCRETE POST PROJECTING 4 INCHES.
LC0386
LC0386 STATION RECOVERY (1986)
LC0386
LC0386'RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1986
LC0386'RECOVERED IN GOOD CONDITION. A NEW DESCRIPTION FOLLOWS. 19.0 KM
LC0386'(11.8 MI) NORTHWESTERLY ALONG U.S. HIGHWAY 150 FROM ITS JUNCTION WITH
LC0386'STATE HIGHWAY 54 IN FARMER CITY, THENCE 0.3 KM (0.2 MI) SOUTH ALONG
LC0386'COUNTY ROAD 2450 E, OR 19.2 KM (11.95 MI) SOUTHEASTERLY ALONG U.S.
LC0386'HIGHWAY 150 FROM ITS JUNCTION WITH INTERSTATE HIGHWAY 55 BUSINESS LOOP
LC0386'IN BLOOMINGTON, THENCE 0.3 KM (0.2 MI) SOUTH ALONG COUNTY ROAD 2450 E,
LC0386'14.0 M (45.9 FT) NORTHEAST OF THE NEAR RAIL OF THE CONRAIL RAILROAD,
LC0386'AND 8.8 M (28.9 FT) WEST OF THE CENTER OF THE ROAD.
LC0386'THE MARK IS ABOVE LEVEL WITH THE ROAD.
LC0386
LC0386 STATION RECOVERY (2001)
LC0386
LC0386'RECOVERY NOTE BY WOOLPERT CONSULTANTS 2001 (ARL)
LC0386'RECOVERED AS DESCRIBED.
LC0386
LC0386 STATION RECOVERY (2012)
LC0386
LC0386'RECOVERY NOTE BY ILLINOIS DEPARTMENT OF TRANSPORTATION 2012 (MW)
LC0386'RECOVERED IN GOOD CONDITION.

DATASHEETS Data Sheet Retrieval
The NGS Data Sheet

See file dsdata.pdf for more information about the datasheet.
PROGRAM = datasheet95, VERSION = 8.12.5.14
Starting Datasheet Retrieval...
1 National Geodetic Survey, Retrieval Date = APRIL 21, 2022
LC1481 **********
LC1481 CBN - This is a Cooperative Base Network Control Station.
LC1481 DESIGNATION - BONTZ
LC1481 PID - LC1481
LC1481 STATE/COUNTY- IL/PEORIA
LC1481 COUNTRY - US
LC1481 USGS QUAD - DUNLAP (2018)
LC1481
LC1481 *CURRENT SURVEY CONTROL
LC1481 _____
LC1481* NAD 83(2011) POSITION- 40 46 32.83235(N) 089 42 30.75109(W) ADJUSTED
LC1481* NAD 83(2011) ELLIP HT- 182.011 (meters) (06/27/12) ADJUSTED
LC1481* NAD 83(2011) EPOCH - 2010.00
LC1481* NAVD 88 ORTHO HEIGHT - 215.006 (meters) 705.40 (feet) ADJUSTED
LC1481 _____
LC1481 GEOID HEIGHT - -32.985 (meters) GEOID18
LC1481 NAD 83(2011) X - 24,605.380 (meters) COMP
LC1481 NAD 83(2011) Y - -4,836,964.846 (meters) COMP
LC1481 NAD 83(2011) Z - 4,143,718.440 (meters) COMP
LC1481 LAPLACE CORR - 1.63 (seconds) DEFLEC18
LC1481 DYNAMIC HEIGHT - 214.908 (meters) 705.08 (feet) COMP
LC1481 MODELED GRAVITY - 980,164.4 (mgal) NAVD 88
LC1481
LC1481 VERT ORDER - SECOND CLASS 0
LC1481
LC1481 Network accuracy estimates per FGDC Geospatial Positioning Accuracy
LC1481 Standards:
LC1481 FGDC (95% conf, cm) Standard deviation (cm) CorrNE
LC1481 Horiz Ellip SD_N SD_E SD_h (unitless)
LC1481 ----------
LC1481 NETWORK 0.35 0.63 0.16 0.12 0.32 0.03583513
LC1481 ----------
LC1481 Click here for local accuracies and other accuracy information.
LC1481
LC1481
LC1481.The horizontal coordinates were established by GPS observations
LC1481.and adjusted by the National Geodetic Survey in June 2012.
LC1481
LC1481.NAD 83(2011) refers to NAD 83 coordinates where the reference frame has
LC1481.been affixed to the stable North American tectonic plate. See
LC1481.NA2011 for more information.
LC1481
LC1481.The horizontal coordinates are valid at the epoch date displayed above
LC1481.which is a decimal equivalence of Year/Month/Day.
LC1481
LC1481.The orthometric height was determined by differential leveling and

LC1481.adjusted by the NATIONAL GEODETIC SURVEY
LC1481.in June 1991.
LC1481
LC1481.Significant digits in the geoid height do not necessarily reflect accuracy.
LC1481.GEOID18 height accuracy estimate available here.
LC1481
LC1481.Click photographs - Photos may exist for this station.
LC1481
LC1481.The X, Y, and Z were computed from the position and the ellipsoidal ht.
LC1481
LC1481.The Laplace correction was computed from DEFLEC18 derived deflections.
LC1481
LC1481.The ellipsoidal height was determined by GPS observations
LC1481.and is referenced to NAD 83.
LC1481
LC1481.The dynamic height is computed by dividing the NAVD 88
LC1481.geopotential number by the normal gravity value computed on the
LC1481.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
LC1481.degrees latitude (g = 980.6199 gals.).
LC1481
LC1481.The modeled gravity was interpolated from observed gravity values.
LC1481
LC1481. The following values were computed from the NAD 83(2011) position.
LC1481
LC1481;   North   East   Units Scale Factor Converg.
LC1481;SPC IL W   -   456,228.697   738,672.513   MT 0.99995958   +0 17 57.1
LC1481;SPC IL W   - 1,496,810.32 2,423,461.40   sFT 0.99995958   +0 17 57.1
LC1481;UTM 16   - 4,517,397.692   271,424.628   MT 1.00024312   -1 46 11.0
LC1481
LC1481!   - Elev Factor x Scale Factor =   Combined Factor
LC1481!SPC IL W   -   0.99997145 x   0.99995958 =   0.99993103
LC1481!UTM 16   -   0.99997145 x   1.00024312 =   1.00021456
LC1481
LC1481:   Primary Azimuth Mark   Grid Az
LC1481:SPC IL W   - BONTZ AZ MK   051 21 07.8
LC1481:UTM 16   - BONTZ AZ MK   053 25 15.9
LC1481
LC1481_U.S. NATIONAL GRID SPATIAL ADDRESS: 16TBL7142417397(NAD 83)
LC1481
LC1481|--|
LC1481| PID   Reference Object   Distance   Geod. Az |
LC1481| dddmmss.s |
LC1481| LC1480 BONTZ RM 1   25.637 METERS 04241 |
LC1481| CI6738 BONTZ AZ MK   0513904.9 |
LC1481| LC1959 PEORIA HTS MUNICIPAL TANK   APPROX.10.1 KM 1022606.5 |
LC1481| LC1994 PEORIA HEIGHTS WATER TANK   APPROX.11.7 KM 1053719.2 |
LC1481| LC2001 PEORIA HTS PREM PABST CORP TK   APPROX.11.8 KM 1073956.4 |
LC1481| LC1991 PEORIA HTS PREM PABST CORP TWR   APPROX.11.9 KM 1075203.0 |
LC1481| LC1989 PEORIA HTS PREM PABST CORP STK   APPROX.11.8 KM 1080044.4 |
LC1481| LC2004 PEORIA HTS WATER WORKS CO TANK   APPROX.12.6 KM 1105510.2 |
LC1481| LC1985 PEORIA ST BERNARDS CATH CH CUP   APPROX.12.4 KM 1245500.7 |
LC1481| LC1984 PEORIA ST FRANCIS HOSP YEL STK   APPROX.13.0 KM 1291835.9 |
LC1481| LC1969 PEORIA ST MARYS CATH NE SPIRE   APPROX.13.5 KM 1292319.2 |
LC1481| LC1981 PEORIA ST FRANCIS HOSP CUPOLA   APPROX.12.9 KM 1292404.3 |

LC1481| LC1982 PEORIA ST MARYS CATH SW SPIRE APPROX.13.5 KM 1292740.1 |
LC1481| LC1971 PEORIA CENTRAL HIGH SCHOOL STK APPROX.11.9 KM 1293355.0 |
LC1481| LC1978 PEORIA ALLIANCE LIFE INS CUP APPROX.13.5 KM 1323610.9 |
LC1481| LC1999 PEORIA ST MARKS CATH CH SPIRE APPROX.12.0 KM 1370409.9 |
LC1481| LC2002 PEORIA BRADLEY INST PWR HSE SK APPROX.11.5 KM 1380816.5 |
LC1481| LC1479 BONTZ RM 2 26.167 METERS 13914 |
LC1481| LC1973 EAST PEORIA MUNICIPAL TANK APPROX.16.7 KM 1412049.5 |
LC1481| LC1993 PEORIA H WALKER AND SONS STK APPROX.14.0 KM 1412150.6 |
LC1481| LC1974 CREVE COEUR TV STA WTVH MAST APPROX.17.0 KM 1425557.7 |
LC1481| LC1972 CREVE COEUR MUNICIPAL TANK APPROX.17.0 KM 1472759.5 |
LC1481| LC2026 PEORIA COML SOLVENTS TALL STK APPROX.14.5 KM 1505239.5 |
LC1481| LC2020 PEORIA COML SOLVENTS SHORT STK APPROX.14.5 KM 1505713.1 |
LC1481| LC2025 RNG PEORIA RADIO PIA APPROX. 8.5 KM 1643759.5 |
LC1481| LC2030 BARTONVILLE PEORIA ST HOSP STK APPROX.15.7 KM 1655404.7 |
LC1481| LC2021 PEORIA COUNTY HOME TANK APPROX. 9.3 KM 1781915.3 |
LC1481|----------|
LC1481
LC1481 SUPERSEDED SURVEY CONTROL
LC1481
LC1481 NAD 83(2007)- 40 46 32.83244(N) 089 42 30.75146(W) AD(2002.00) 0
LC1481 ELLIP H (02/10/07) 182.020 (m) GP(2002.00)
LC1481 ELLIP H (10/15/04) 182.008 (m) GP( ) 4 2
LC1481 NAD 83(1997)- 40 46 32.83238(N) 089 42 30.75114(W) AD( ) B
LC1481 ELLIP H (07/17/98) 182.027 (m) GP( ) 4 1
LC1481 NAD 83(1986)- 40 46 32.84034(N) 089 42 30.75075(W) AD( ) 1
LC1481 NAD 27 - 40 46 32.70700(N) 089 42 30.38700(W) AD( ) 1
LC1481 NAVD 88 215.01 (m) 705.4 (f) LEVELING 3
LC1481 NGVD 29 (??/??/92) 215.086 (m) 705.66 (f) ADJ UNCH 2 0
LC1481 NGVD 29 215.09 (m) 705.7 (f) LEVELING 3
LC1481
LC1481.Superseded values are not recommended for survey control.
LC1481
LC1481.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.
LC1481.See file dsdata.pdf to determine how the superseded data were derived.
LC1481
LC1481_MARKER: DS = TRIANGULATION STATION DISK
LC1481_SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT
LC1481_STAMPING: BONTZ 1939
LC1481_MARK LOGO: CGS
LC1481_PROJECTION: PROJECTING 15 CENTIMETERS
LC1481_MAGNETIC: N = NO MAGNETIC MATERIAL
LC1481_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO
LC1481+STABILITY: SURFACE MOTION
LC1481_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
LC1481+SATELLITE: SATELLITE OBSERVATIONS - October 01, 2020
LC1481
LC1481 HISTORY - Date Condition Report By
LC1481 HISTORY - 1939 MONUMENTED CGS
LC1481 HISTORY - 1959 GOOD LOCENG
LC1481 HISTORY - 1959 GOOD CGS
LC1481 HISTORY - 1959 GOOD CGS
LC1481 HISTORY - 19901002 GOOD NGS
LC1481 HISTORY - 19970423 GOOD NGS
LC1481 HISTORY - 19981214 GOOD USPSQD

LC1481 HISTORY   - 20031208 GOOD   INDIV
LC1481 HISTORY   - 20100427 GOOD   ILDT
LC1481 HISTORY   - 20201001 GOOD   ILDT
LC1481
LC1481   STATION DESCRIPTION
LC1481
LC1481'DESCRIBED BY COAST AND GEODETIC SURVEY 1939 (FBQ)
LC1481'THE STATION IS LOCATED 2 MILES EAST AND 1 MILE SOUTH OF KICKAPOO, IN
LC1481'THE NE 1/4 SE 1/4 OF SEC. 9, T. 9 N., R. 7 E. 0.45 MILE SOUTH OF U.S.
LC1481'HIGHWAY NO. 150. 0.15 MILE NORTH OF THE FARMHOUSE OF FRED NASTMAN,
LC1481'UNDER A TELEPHONE LINE, AND IN A GAP IN A HEDGE FENCE. IT IS 28-1/2
LC1481'FEET WEST OF THE CENTER LINE OF A NORTH-AND-SOUTH ROAD AND 16 FEET
LC1481'NORTH OF A TELEPHONE POLE. THE MARK, PROJECTS 6 INCHES ABOVE THE
LC1481'GROUND AND IS STAMPED BONTZ 1939.
LC1481'
LC1481'TO REACH THE STATION FROM THE POST OFFICE IN KICKAPOO, GO EAST ON U.S.
LC1481'HIGHWAY NO. 150 FOR 2.2 MILES TO A T-ROAD RIGHT (SOUTH) TURN RIGHT
LC1481'AND GO 0.45 MILE TO THE MARK ON THE RIGHT (WEST) SIDE OF THE ROAD.
LC1481'
LC1481'SURFACE, UNDERGROUND, REFERENCE AND AZIMUTH MARKS ARE STANDARD BRONZE
LC1481'DISKS SET IN CONCRETE.
LC1481'
LC1481'REFERENCE MARK NO. 1 IS 25.650 METERS, 84.16 FEET, NORTHEAST OF THE
LC1481'STATION, UNDER A 2-WIRE POWER LINE, 2 FEET WEST OF A HEDGE FENCE, AND
LC1481'27 FEET EAST OF THE CENTER LINE OF THE ROAD. THE MARK, PROJECTS 3
LC1481'INCHES ABOVE THE GROUND AND IS STAMPED BONTZ NO 1 1939.
LC1481'
LC1481'REFERENCE MARK NO. 2 IS 26.184 METERS, 85.90 FEET, SOUTHEAST OF THE
LC1481'STATION, UNDER A 2-WIRE POWER LINE, 1 FOOT WEST OF A HEDGE FENCE, AND
LC1481'28 FEET EAST OF THE CENTER LINE OF THE ROAD. THE MARK, PROJECTS 6
LC1481'INCHES ABOVE THE GROUND AND IS STAMPED BONTZ NO 2 1939.
LC1481'
LC1481'AZIMUTH MARK IS APPROXIMATELY 0.6 MILE NORTHEAST OF THE STATION, 32
LC1481'FEET NORTH OF THE CENTER LINE OF U.S. HIGHWAY NO. 150, 1 FOOT SOUTH OF
LC1481'THE JUNCTION OF AN EAST-AND-WEST FENCE LINE AND A NORTH-AND-SOUTH
LC1481'FENCE LINE, AND 58 FEET WEST OF A POWER LINE POLE. THE MARK, PROJECTS
LC1481'4 INCHES ABOVE THE GROUND AND IS STAMPED BONTZ 1939.
LC1481'
LC1481'TO REACH THE MARK FROM THE STATION GO NORTH 0.45 MILE, TURN RIGHT
LC1481'(EAST) ON HIGHWAY NO. 150 AND GO 0.45 MILE TO THE MARK ON THE LEFT
LC1481'(NORTH) SIDE OF THE HIGHWAY.
LC1481'
LC1481'ALL MARKS ARE WITNESSED BY 4- BY 4-INCH WHITE POSTS WHICH PROJECT
LC1481'2-1/2 FEET ABOVE THE GROUND.
LC1481'
LC1481'77-FOOT TOWER NEEDED TO SEE 77-FOOT TOWER AT FARGO.
LC1481'77-FOOT TOWER NEEDED TO SEE 64-FOOT TOWER AT PULLEN.
LC1481'37-FOOT TOWER NEEDED TO SEE 77-FOOT TOWER AT BAER.
LC1481'37-FOOT TOWER NEEDED TO SEE 64-FOOT TOWER AT MOON 1935.
LC1481'37-FOOT TOWER NEEDED TO SEE 64-FOOT TOWER AT MONICA 1935.
LC1481'37-FOOT TOWER NEEDED TO SEE 90-FOOT TOWER AT MOOR.
LC1481'HEIGHT OF LIGHT ABOVE STATION MARK - 26 METERS.
LC1481
LC1481   STATION RECOVERY (1959)

LC1481
LC1481'RECOVERY NOTE BY LOCAL ENGINEER (INDIVIDUAL OR FIRM) 1959
LC1481'LETTER OF MR. W.A. WEIMER, MINING ENGR., PEABODY COAL CO.,
LC1481'ST. LOUIS, MO. DATED 2/20/59--
LC1481'
LC1481'THE STATION, REFERENCE AND AZIMUTH MARKS RECOVERED IN GOOD
LC1481'CONDITION. THE HEDGE FENCES HAVE BEEN REMOVED.
LC1481
LC1481 STATION RECOVERY (1959)
LC1481
LC1481'RECOVERY NOTE BY COAST AND GEODETIC SURVEY 1959 (RWE)
LC1481'THE STATION MARK, REFERENCE MARK NUMBER 1, REFERENCE MARK NUMBER 2 AND
LC1481'THE AZIMUTH MARK WERE FOUND IN GOOD CONDITION AS DESCRIBED. THE ONLY
LC1481'CHANGES IN THE DESCRIPTION ARE AS FOLLOWS--THE STATION IS NOW ON
LC1481'PROPERTY OWNED BY MR. VIRGIL EVERETT WHO LIVES AT THE FIRST HOUSE
LC1481'SOUTH OF THE STATION. A NEW WITNESS POST WAS SET 3 FEET WEST OF THE
LC1481'STATION MARK. A DIFFERENCE WAS FOUND IN THE DISTANCE AND DIRECTION TO
LC1481'REFERENCE MARK NUMBER 1 AND REFERENCE MARK NUMBER 2. THE NEW DISTANCE
LC1481'AND DIRECTION ARE SHOWN BELOW.
LC1481
LC1481 STATION RECOVERY (1959)
LC1481
LC1481'RECOVERY NOTE BY COAST AND GEODETIC SURVEY 1959
LC1481'2.6 MI SE FROM KICKAPOO.
LC1481'ABOUT 2.15 MILES EAST ALONG U.S. HIGHWAY 150 FROM THE NORTHWEST CORNER
LC1481'OF THE CITY PARK AT KICKAPOO, THENCE 0.45 MILES SOUTH ALONG A
LC1481'GRAVEL ROAD, 28 FEET WEST OF THE CENTER LINE OF THE ROAD, 16 FEET
LC1481'NORTH OF THE THIRD TELEPHONE POLE NORTH OF A FARM HOUSE ON THE
LC1481'WEST SIDE OF THE ROAD, ABOUT 0.15 MILES NORTH OF A DRIVE WEST
LC1481'TO A FARM HOUSE, 1.5 FEET EAST OF A METAL WITNESS POST, ABOUT
LC1481'1 FOOT ABOVE THE LEVEL OF THE ROAD, SET IN THE TOP OF A CONCRETE
LC1481'POST PROJECTING 3 INCHES.
LC1481
LC1481 STATION RECOVERY (1990)
LC1481
LC1481'RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1990
LC1481'STATION MARK WAS RECOVERED IN GOOD CONDITION. OTHER MARKS NOT
LC1481'SEARCHED FOR. THIS STATION IS ALSO A BENCH MARK. STATION IS LOCATED
LC1481'ABOUT 4 KM (2.5 MI) SOUTHEAST OF KICKAPOO, 0.8 KM (0.5 MI) SOUTH OF US
LC1481'HIGHWAY 150, IN A NARROW WEED STRIP BETWEEN ROAD AND A CULTIVATED
LC1481'FIELD THAT IS FARMED BY GEORGE CRAMER, PHONE 309-691-2036.
LC1481'OWNERSHIP--UNKNOWN, IT MAY BE ON EDGE OF RIGHT-OF-WAY. ANYWAY MR
LC1481'CRAMER GAVE PERMISSION TO USE STATION.
LC1481'
LC1481'TO REACH FROM THE JUNCTION OF INTERSTATE HIGHWAY 74 AND COUNTY ROAD 18
LC1481'(EXIT 82) SOUTH OF KICKAPOO, GO NORTH ON ROAD 18 FOR 1.76 KM (1.09 MI)
LC1481'TO HIGHWAY 150 IN KICKAPOO. TURN RIGHT, EAST, ON HIGHWAY 150 FOR 3.72
LC1481'KM (2.31 MI) TO A PAVED ROAD RIGHT. TURN RIGHT, SOUTH, ON HEINZ LANE
LC1481'FOR 0.79 KM (0.49 MI) TO HIGH GROUND AND THE STATION ON THE RIGHT.
LC1481'
LC1481'STATION MARK IS SET IN THE TOP OF A 30-CM SQUARE CONCRETE POST
LC1481'PROJECTING 10 CM. IT IS 9.3 M (30.5 FT) WEST OF, AND 0.5 M (1.6 FT)
LC1481'HIGHER THAN THE ROAD CENTER, 0.4 M (1.3 FT) NORTH OF A FIBERGLASS
LC1481'WITNESS POST, 16 M (52.5 FT) SOUTH OF THE CENTER OF A FIELD ENTRANCE,

LC1481'38.9 M (127.6 FT) SOUTH-SOUTHWEST OF A UTILITY POLE ACROSS THE ROAD,
LC1481'AND 50.3 M (165.0 FT) NORTH-NORTHWEST OF A UTILITY POLE ACROSS THE
LC1481'ROAD.
LC1481
LC1481 STATION RECOVERY (1997)
LC1481
LC1481'RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1997 (RKB)
LC1481'THE STATION IS LOCATED ABOUT 2.5 MI (4.0 KM) SOUTHEAST OF KICKAPOO. TO
LC1481'REACH FROM THE JUNCTION OF INTERSTATE HIGHWAY 74 AND KICKAPOO-EDWARDS
LC1481'ROAD (10000W), EXIT 82, GO NORTH FOR 1.09 MI (1.75 KM) TO U.S. HIGHWAY
LC1481'150 IN KICKAPOO. TURN RIGHT, EAST, ON HIGHWAY 150 FOR 2.3 MI (3.7 KM)
LC1481'TO A PAVED ROAD RIGHT. TURN RIGHT, SOUTH, ON HEINZ LANE FOR 0.5 MI
LC1481'(0.8 KM) TO HIGH GROUND AND THE STATION ON THE RIGHT. IT IS 9.3 M
LC1481'(30.5 FT) WEST OF AND 0.5 M (1.6 FT) HIGHER THAN THE CENTER OF THE
LC1481'ROAD, 16 M (52.5 FT) SOUTH OF THE CENTER OF A FIELD ENTRANCE, 38.9 M
LC1481'(127.6 FT) SOUTH-SOUTHWEST OF A UTILITY POLE ACROSS THE ROAD, AND 0.4
LC1481'M (1.3 FT) NORTH OF A FIBERGLASS WITNESS POST.
LC1481
LC1481 STATION RECOVERY (1998)
LC1481
LC1481'RECOVERY NOTE BY US POWER SQUADRON 1998
LC1481'RECOVERED IN GOOD CONDITION.
LC1481
LC1481 STATION RECOVERY (2003)
LC1481
LC1481'RECOVERY NOTE BY INDIVIDUAL CONTRIBUTORS 2003 (DWS)
LC1481'DAILY AND ASSOC. ENGINEERS - STATION BONTZ LIES ON THE EAST PLOW LINE
LC1481'OF A FIELD, MARKER BASE WAS RECENTLY PAINTED BY UNKOWN PARTY.
LC1481
LC1481 STATION RECOVERY (2010)
LC1481
LC1481'RECOVERY NOTE BY ILLINOIS DEPARTMENT OF TRANSPORTATION 2010 (CW)
LC1481'RECOVERED AS DESCRIBED
LC1481
LC1481 STATION RECOVERY (2020)
LC1481
LC1481'RECOVERY NOTE BY ILLINOIS DEPARTMENT OF TRANSPORTATION 2020 (DL)
LC1481'RECOVERED IN GOOD CONDITION.

*** retrieval complete.
Elapsed Time = 00:00:05

DATASHEETS Data Sheet Retrieval
The NGS Data Sheet

See file dsdata.pdf for more information about the datasheet.
PROGRAM = datasheet95, VERSION = 8.12.5.14
Starting Datasheet Retrieval...
1 National Geodetic Survey, Retrieval Date = APRIL 21, 2022
LC1405 **********
LC1405 CBN - This is a Cooperative Base Network Control Station.
LC1405 DESIGNATION - BRIMFIELD
LC1405 PID - LC1405
LC1405 STATE/COUNTY- IL/PEORIA
LC1405 COUNTRY - US
LC1405 USGS QUAD - ELMWOOD (2018)
LC1405
LC1405 *CURRENT SURVEY CONTROL
LC1405 _____
LC1405* NAD 83(2011) POSITION- 40 49 40.13268(N) 089 53 21.20233(W) ADJUSTED
LC1405* NAD 83(2011) ELLIP HT- 173.380 (meters) (06/27/12) ADJUSTED
LC1405* NAD 83(2011) EPOCH - 2010.00
LC1405* NAVD 88 ORTHO HEIGHT - 206.518 (meters) 677.55 (feet) ADJUSTED
LC1405 _____
LC1405 GEOID HEIGHT - -33.080 (meters) GEOID18
LC1405 NAD 83(2011) X - 9,344.715 (meters) COMP
LC1405 NAD 83(2011) Y - -4,833,236.351 (meters) COMP
LC1405 NAD 83(2011) Z - 4,148,086.493 (meters) COMP
LC1405 LAPLACE CORR - 0.83 (seconds) DEFLEC18
LC1405 DYNAMIC HEIGHT - 206.424 (meters) 677.24 (feet) COMP
LC1405 MODELED GRAVITY - 980,164.4 (mgal) NAVD 88
LC1405
LC1405 VERT ORDER - SECOND CLASS 0
LC1405
LC1405 Network accuracy estimates per FGDC Geospatial Positioning Accuracy
LC1405 Standards:
LC1405 FGDC (95% conf, cm) Standard deviation (cm) CorrNE
LC1405 Horiz Ellip SD_N SD_E SD_h (unitless)
LC1405 ----------
LC1405 NETWORK 1.30 4.02 0.60 0.44 2.05 -0.03586314
LC1405 ----------
LC1405 Click here for local accuracies and other accuracy information.
LC1405
LC1405
LC1405.The horizontal coordinates were established by GPS observations
LC1405.and adjusted by the National Geodetic Survey in June 2012.
LC1405
LC1405.NAD 83(2011) refers to NAD 83 coordinates where the reference frame has
LC1405.been affixed to the stable North American tectonic plate. See
LC1405.NA2011 for more information.
LC1405
LC1405.The horizontal coordinates are valid at the epoch date displayed above
LC1405.which is a decimal equivalence of Year/Month/Day.
LC1405
LC1405.The orthometric height was determined by differential leveling and

LC1405.adjusted by the NATIONAL GEODETIC SURVEY
LC1405.in June 1991.
LC1405
LC1405.Significant digits in the geoid height do not necessarily reflect accuracy.
LC1405.GEOID18 height accuracy estimate available here.
LC1405
LC1405.Click photographs - Photos may exist for this station.
LC1405
LC1405.The X, Y, and Z were computed from the position and the ellipsoidal ht.
LC1405
LC1405.The Laplace correction was computed from DEFLEC18 derived deflections.
LC1405
LC1405.The ellipsoidal height was determined by GPS observations
LC1405.and is referenced to NAD 83.
LC1405
LC1405.The dynamic height is computed by dividing the NAVD 88
LC1405.geopotential number by the normal gravity value computed on the
LC1405.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
LC1405.degrees latitude (g = 980.6199 gals.).
LC1405
LC1405.The modeled gravity was interpolated from observed gravity values.
LC1405
LC1405. The following values were computed from the NAD 83(2011) position.
LC1405
LC1405;   North   East   Units Scale Factor Converg.
LC1405;SPC IL W   -   461,942.124   723,402.063   MT 0.99994791   +0 10 53.0
LC1405;SPC IL W   - 1,515,555.12 2,373,361.60   sFT 0.99994791   +0 10 53.0
LC1405;UTM 16   - 4,523,661.075   256,365.509   MT 1.00033065   -1 53 23.5
LC1405
LC1405!   - Elev Factor x Scale Factor =   Combined Factor
LC1405!SPC IL W   -   0.99997280 x   0.99994791 =   0.99992072
LC1405!UTM 16   -   0.99997280 x   1.00033065 =   1.00030344
LC1405
LC1405:   Primary Azimuth Mark   Grid Az
LC1405:SPC IL W   - BRIMFIELD AZ MK   182 40 38.0
LC1405:UTM 16   - BRIMFIELD AZ MK   184 44 54.5
LC1405
LC1405_U.S. NATIONAL GRID SPATIAL ADDRESS: 16TBL5636523661(NAD 83)
LC1405
LC1405|--|
LC1405| PID   Reference Object   Distance   Geod. Az |
LC1405| dddmmss.s |
LC1405| LC1407 BRIMFIELD RM 1   15.926 METERS 00215 |
LC1405| LC1404 BRIMFIELD AZ MK   1825131.0 |
LC1405| LC1406 BRIMFIELD RM 2   15.812 METERS 27036 |
LC1405|--|
LC1405
LC1405   SUPERSEDED SURVEY CONTROL
LC1405
LC1405 NAD 83(2007)- 40 49 40.13266(N)   089 53 21.20310(W) AD(2002.00) 0
LC1405 ELLIP H (02/10/07) 173.421 (m)   GP(2002.00)
LC1405 ELLIP H (10/15/04) 173.406 (m)   GP(   ) 4 2
LC1405 NAD 83(1997)- 40 49 40.13242(N)   089 53 21.20281(W) AD(   ) B
LC1405 ELLIP H (07/17/98) 173.437 (m)   GP(   ) 4 1

LC1405 NAD 83(1986)- 40 49 40.13980(N)   089 53 21.20782(W) AD(   ) 2
LC1405 NAD 27   - 40 49 40.00820(N)   089 53 20.81250(W) AD(   ) 2
LC1405 NAVD 88   206.52   (m)   677.6   (f) LEVELING   3
LC1405 NGVD 29 (??/??/92) 206.603 (m)   677.83   (f) ADJ UNCH   2 0
LC1405 NGVD 29   206.60   (m)   677.8   (f) LEVELING   3
LC1405
LC1405.Superseded values are not recommended for survey control.
LC1405
LC1405.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.
LC1405.See file dsdata.pdf to determine how the superseded data were derived.
LC1405
LC1405_MARKER: DS = TRIANGULATION STATION DISK
LC1405_SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT
LC1405_STAMPING: BRIMFIELD 1959
LC1405_MARK LOGO: CGS
LC1405_PROJECTION: FLUSH
LC1405_MAGNETIC: N = NO MAGNETIC MATERIAL
LC1405_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO
LC1405+STABILITY: SURFACE MOTION
LC1405_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
LC1405+SATELLITE: SATELLITE OBSERVATIONS - October 27, 2020
LC1405
LC1405 HISTORY   - Date   Condition   Report By
LC1405 HISTORY   - 1959   MONUMENTED   CGS
LC1405 HISTORY   - 1959   GOOD   CGS
LC1405 HISTORY   - 1969   GOOD   USGS
LC1405 HISTORY   - 19970426 GOOD   NGS
LC1405 HISTORY   - 19981214 GOOD   USPSQD
LC1405 HISTORY   - 20201027 GOOD   ILDT
LC1405
LC1405   STATION DESCRIPTION
LC1405
LC1405'DESCRIBED BY COAST AND GEODETIC SURVEY 1959 (RWE)
LC1405'STATION IS LOCATED ABOUT 1.0 MILE SOUTH OF BRIMFIELD, 5-1/2
LC1405'MILES NORTHEAST OF ELMWOOD AND 3 MILES NORTH-NORTHWEST OF
LC1405'OAK HILL.
LC1405'
LC1405'TO REACH FROM THE MAIN INTERSECTION IN BRIMFIELD, GO WEST
LC1405'ON U.S. HIGHWAY NO. 150 FOR 0.25 MILE TO CROSSROADS, TURN
LC1405'LEFT AND GO SOUTH ON SURFACED ROAD FOR 0.7 MILE TO WHERE
LC1405'SURFACED ROAD TURNS WEST, CONTINUE STRAIGHT AHEAD ON GRAVELED
LC1405'ROAD FOR 0.1 MILE TO STATION ON LEFT AS DESCRIBED.
LC1405'
LC1405'STATION MARK, A STANDARD DISK STAMPED BRIMFIELD 1959, IS
LC1405'SET IN A 12 INCH SQUARE CONCRETE POST WHICH PROJECTS ABOUT
LC1405'5 INCHES. THE MARK IS 29.5 FEET NORTH OF TRIANGLE BLAZED
LC1405'POWER POLE, 25 FEET EAST OF CENTER OF GRAVELED ROAD AND 2.3
LC1405'FEET WEST OF FENCE LINE.
LC1405'
LC1405'REFERENCE MARK NUMBER 1, A STANDARD DISK STAMPED BRIMFIELD
LC1405'NO. 1 1959, IS SET IN A 12 INCH SQUARE CONCRETE POST WHICH
LC1405'PROJECTS ABOUT 3 INCHES. THE MARK IS 51.5 FEET SOUTH OF
LC1405'POWER POLE, 26 FEET EAST OF CENTER OF GRAVELED ROAD AND
LC1405'1 FOOT WEST OF FENCE LINE.

LC1405'
LC1405'REFERENCE MARK NUMBER 2, A STANDARD DISK STAMPED BRIMFIELD
LC1405'NO. 2 1959, IS SET IN A 12 INCH SQUARE CONCRETE POST WHICH
LC1405'PROJECTS ABOUT 2 INCHES. THE MARK IS 26 FEET WEST OF CENTER
LC1405'OF GRAVELED ROAD AND 1.5 FEET EAST OF FENCE LINE.
LC1405'
LC1405'AZIMUTH MARK, A STANDARD DISK STAMPED BRIMFIELD 1959, IS
LC1405'SET IN A 12 INCH SQUARE CONCRETE POST WHICH PROJECTS 4
LC1405'INCHES. THE MARK IS 52.5 FEET NORTH OF POWER POLE WITH
LC1405'TRANSFORMER, 28 FEET WEST OF CENTER OF ROAD AND 1 FOOT EAST
LC1405'OF FENCE LINE.
LC1405'
LC1405'TO REACH AZIMUTH MARK FROM STATION, GO SOUTH ON GRAVELED
LC1405'ROAD FOR 0.25 MILE TO MARK ON RIGHT SIDE OF ROAD.
LC1405
LC1405 STATION RECOVERY (1959)
LC1405
LC1405'RECOVERY NOTE BY COAST AND GEODETIC SURVEY 1959
LC1405'2 MI SW FROM BRIMFIELD.
LC1405'ABOUT 0.3 MILES WEST ALONG U.S. HIGHWAY 150 FROM THE FIRE STATION
LC1405'AT BRIMFIELD, THENCE 0.65 MILES SOUTH ALONG AN ASPHALT ROAD, THENCE
LC1405'0.1 MILE SOUTH ALONG A GRAVEL ROAD, 26 FEET EAST OF THE CENTER
LC1405'LINE OF THE ROAD, 2 1/2 FEET WEST OF A FENCE, 29 1/2 FEET NORTH OF
LC1405'A TELEPHONE POLE WHICH IS THE FOURTH POLE SOUTH OF THE JUNCTION
LC1405'OF THE ASPHALT ROAD WEST, 2.1 FEET WEST OF A METAL WITNESS POST,
LC1405'ABOUT 1 FOOT ABOVE THE LEVEL OF THE ROAD, SET IN THE TOP OF A
LC1405'CONCRETE POST PROJECTING 3 INCHES.
LC1405
LC1405 STATION RECOVERY (1969)
LC1405
LC1405'RECOVERY NOTE BY US GEOLOGICAL SURVEY 1969
LC1405'ALL MARKS RECOVERED AS DESCRIBED. AZIMUTH MARK MAY HAVE
LC1405'BEEN MOVED AS IT DOES NOT CHECK WITH OBSERVED AZIMUTHS BY
LC1405'ABOUT 7-1/2 MINUTES OF ARC.
LC1405'
LC1405'AIRLINE DISTANCE AND DIRECTION FROM NEAREST TOWN--1.0 MI.
LC1405'S. OF BRIMFIELD
LC1405
LC1405 STATION RECOVERY (1997)
LC1405
LC1405'RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1997 (RKB)
LC1405'THE STATION IS LOCATED ABOUT 0.75 MI (1.21 KM) SOUTH OF BRIMFIELD. TO
LC1405'REACH FROM THE CENTER OF THE OVERPASS OF INTERSTATE HIGHWAY 74 AT EXIT
LC1405'71, GO SOUTH ON BELL SCHOOL ROAD (ROAD 21100E) FOR 1.5 MI (2.4 KM) TO
LC1405'A CROSSROAD (SHISSLER ROAD/11500N). TURN LEFT, EAST, ON SHISSLER ROAD
LC1405'FOR 2.0 MI (3.2 KM) TO A NORTH-SOUTH T-ROAD (BRIMFIELD ROAD/18700W).
LC1405'TURN RIGHT, SOUTH, FOR 0.08 MI (0.13 KM) TO THE STATION ON THE LEFT.
LC1405'IT IS ABOUT 145 M (475.7 FT) NORTH OF THE EXTENDED CENTER OF A DRIVE
LC1405'WEST TO A TWO-STORY WHITE FRAME HOUSE, 7.8 M (25.6 FT) EAST OF THE
LC1405'CENTER OF THE ROAD, 46.0 M (150.9 FT) SOUTH OF THE FIRST LARGE POWER
LC1405'POLE SOUTH OF A GUYED CORNER POLE AT INTERSECTION, 34.0 M (111.5 FT)
LC1405'NORTH OF THE SECOND LARGE POWER POLE SOUTH OF A GUYED CORNER POLE AT
LC1405'INTERSECTION, AND 0.3 M (1.0 FT) WEST OF A FIBERGLASS WITNESS POST.
LC1405'THE STATION CAN ALSO BE REACHED FROM THE INTERSECTION OF U.S. HIGHWAY

LC1405'150 AND JEFFERSON STREET IN THE EAST PART OF BRIMFIELD. GO SOUTH ON
LC1405'JEFFERSON STREET, WHICH BECOMES BRIMFIELD ROAD, FOR 0.75 MI (1.21 KM)
LC1405'TO THE STATION ON THE LEFT.
LC1405
LC1405 STATION RECOVERY (1998)
LC1405
LC1405'RECOVERY NOTE BY US POWER SQUADRON 1998
LC1405'RECOVERED IN GOOD CONDITION.
LC1405
LC1405 STATION RECOVERY (2020)
LC1405
LC1405'RECOVERY NOTE BY ILLINOIS DEPARTMENT OF TRANSPORTATION 2020 (DL)
LC1405'RECOVERED IN GOOD CONDITION.

*** retrieval complete.
Elapsed Time = 00:00:04

DATASHEETS Data Sheet Retrieval
The NGS Data Sheet

See file dsdata.pdf for more information about the datasheet.
PROGRAM = datasheet95, VERSION = 8.12.5.14
Starting Datasheet Retrieval...
1 National Geodetic Survey, Retrieval Date = APRIL 21, 2022
LC0873 ***
LC0873 DESIGNATION - D 229
LC0873 PID - LC0873
LC0873 STATE/COUNTY- IL/WOODFORD
LC0873 COUNTRY - US
LC0873 USGS QUAD - EL PASO (2018)
LC0873
LC0873 *CURRENT SURVEY CONTROL
LC0873 _____
LC0873* NAD 83(2011) POSITION- 40 44 02.85725(N) 089 00 53.93136(W) ADJUSTED
LC0873* NAD 83(2011) ELLIP HT- 189.871 (meters) (06/27/12) ADJUSTED
LC0873* NAD 83(2011) EPOCH - 2010.00
LC0873* NAVD 88 ORTHO HEIGHT - 222.180 (meters) 728.94 (feet) ADJUSTED
LC0873 _____
LC0873 GEOID HEIGHT - -32.279 (meters) GEOID18
LC0873 NAD 83(2011) X - 83,205.260 (meters) COMP
LC0873 NAD 83(2011) Y - -4,839,338.381 (meters) COMP
LC0873 NAD 83(2011) Z - 4,140,219.022 (meters) COMP
LC0873 LAPLACE CORR - 0.91 (seconds) DEFLEC18
LC0873 DYNAMIC HEIGHT - 222.080 (meters) 728.61 (feet) COMP
LC0873 MODELED GRAVITY - 980,172.6 (mgal) NAVD 88
LC0873
LC0873 VERT ORDER - FIRST CLASS I
LC0873
LC0873 Network accuracy estimates per FGDC Geospatial Positioning Accuracy
LC0873 Standards:
LC0873 FGDC (95% conf, cm) Standard deviation (cm) CorrNE
LC0873 Horiz Ellip SD_N SD_E SD_h (unitless)
LC0873 ----------
LC0873 NETWORK 0.59 0.94 0.26 0.22 0.48 0.05231006
LC0873 ----------
LC0873 Click here for local accuracies and other accuracy information.
LC0873
LC0873
LC0873.The horizontal coordinates were established by GPS observations
LC0873.and adjusted by the National Geodetic Survey in June 2012.
LC0873
LC0873.NAD 83(2011) refers to NAD 83 coordinates where the reference frame has
LC0873.been affixed to the stable North American tectonic plate. See
LC0873.NA2011 for more information.
LC0873
LC0873.The horizontal coordinates are valid at the epoch date displayed above
LC0873.which is a decimal equivalence of Year/Month/Day.
LC0873
LC0873.The orthometric height was determined by differential leveling and
LC0873.adjusted by the NATIONAL GEODETIC SURVEY

LC0873.in June 1991.
LC0873
LC0873.Significant digits in the geoid height do not necessarily reflect accuracy.
LC0873.GEOID18 height accuracy estimate available here.
LC0873
LC0873.Click photographs - Photos may exist for this station.
LC0873
LC0873.The X, Y, and Z were computed from the position and the ellipsoidal ht.
LC0873
LC0873.The Laplace correction was computed from DEFLEC18 derived deflections.
LC0873
LC0873.The ellipsoidal height was determined by GPS observations
LC0873.and is referenced to NAD 83.
LC0873
LC0873.The dynamic height is computed by dividing the NAVD 88
LC0873.geopotential number by the normal gravity value computed on the
LC0873.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
LC0873.degrees latitude (g = 980.6199 gals.).
LC0873
LC0873.The modeled gravity was interpolated from observed gravity values.
LC0873
LC0873. The following values were computed from the NAD 83(2011) position.
LC0873
LC0873; North East Units Scale Factor Converg.
LC0873;SPC IL W - 452,139.761 797,280.876 MT 1.00005762 +0 45 05.7
LC0873;SPC IL W - 1,483,395.20 2,615,745.67 sFT 1.00005762 +0 45 05.7
LC0873;UTM 16 - 4,511,196.105 329,852.613 MT 0.99995634 -1 18 54.7
LC0873
LC0873! - Elev Factor x Scale Factor = Combined Factor
LC0873!SPC IL W - 0.99997022 x 1.00005762 = 1.00002784
LC0873!UTM 16 - 0.99997022 x 0.99995634 = 0.99992656
LC0873
LC0873_U.S. NATIONAL GRID SPATIAL ADDRESS: 16TCL2985211196(NAD 83)
LC0873
LC0873 SUPERSEDED SURVEY CONTROL
LC0873
LC0873 NAD 83(2007)- 40 44 02.85716(N) 089 00 53.93229(W) AD(2002.00) 1
LC0873 ELLIP H (08/01/11) 189.895 (m) GP(2002.00) 3 1
LC0873 NAVD 88 222.17 (m) 728.9 (f) LEVELING 3
LC0873 NGVD 29 (??/??/92) 222.216 (m) 729.05 (f) ADJ UNCH 1 1
LC0873
LC0873.Superseded values are not recommended for survey control.
LC0873
LC0873.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.
LC0873.See file dsdata.pdf to determine how the superseded data were derived.
LC0873
LC0873_MARKER: DB = BENCH MARK DISK
LC0873_SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT
LC0873_STAMPING: D 229 1960
LC0873_MARK LOGO: CGS
LC0873_PROJECTION: PROJECTING 15 CENTIMETERS
LC0873_MAGNETIC: N = NO MAGNETIC MATERIAL
LC0873_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO
LC0873+STABILITY: SURFACE MOTION

LC0873_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
LC0873+SATELLITE: SATELLITE OBSERVATIONS - September 02, 2020
LC0873
LC0873 HISTORY   - Date   Condition   Report By
LC0873 HISTORY   - 1960   MONUMENTED   CGS
LC0873 HISTORY   - 1969   GOOD   CGS
LC0873 HISTORY   - 19981023 GOOD   USPSQD
LC0873 HISTORY   - 19981122 GOOD   USPSQD
LC0873 HISTORY   - 20020121 GOOD   INDIV
LC0873 HISTORY   - 20100501 GOOD   ILDT
LC0873 HISTORY   - 20190517 GOOD   USPSQD
LC0873 HISTORY   - 20200902 GOOD   ILDT
LC0873
LC0873   STATION DESCRIPTION
LC0873
LC0873'DESCRIBED BY COAST AND GEODETIC SURVEY 1969
LC0873'0.3 MI S FROM EL PASO.
LC0873'ABOUT 0.3 MILE SOUTH ALONG THE ILLINOIS CENTRAL RAILROAD FROM
LC0873'THE STATION AT EL PASO, 890 YARDS NORTH OF MILEPOST 813, 96 FEET
LC0873'EAST OF THE EAST RAIL OF THE MAIN TRACK, 39 FEET NORTH OF THE
LC0873'EXTENDED CENTER LINE OF CLAY STREET WHICH LEADS EAST, 101 FEET
LC0873'EAST-NORTHEAST OF A SWITCH STAND FOR THE RAILROAD, 1 1/2 FEET WEST
LC0873'OF A FENCE, 2.0 FEET SOUTH OF A METAL WITNESS POST, ABOUT 6 1/2
LC0873'FEET BELOW THE LEVEL OF THE TRACK, AND SET IN THE TOP OF A CONCRETE
LC0873'POST WHICH PROJECTS 3 INCHES ABOVE THE SURFACE OF THE GROUND.
LC0873'SEC 8, T26N, R2E
LC0873
LC0873   STATION RECOVERY (1998)
LC0873
LC0873'RECOVERY NOTE BY US POWER SQUADRON 1998
LC0873'RECOVERED IN GOOD CONDITION.
LC0873
LC0873   STATION RECOVERY (1998)
LC0873
LC0873'RECOVERY NOTE BY US POWER SQUADRON 1998
LC0873'RECOVERED IN GOOD CONDITION.
LC0873
LC0873   STATION RECOVERY (2002)
LC0873
LC0873'RECOVERY NOTE BY INDIVIDUAL CONTRIBUTORS 2002 (KEZ)
LC0873'RECOVERED AS DESCRIBED, DESCRIPTION IS ADEQUATE
LC0873
LC0873   STATION RECOVERY (2010)
LC0873
LC0873'RECOVERY NOTE BY ILLINOIS DEPARTMENT OF TRANSPORTATION 2010 (CW)
LC0873'RECOVERED AS DESCRIBED
LC0873
LC0873   STATION RECOVERY (2019)
LC0873
LC0873'RECOVERY NOTE BY US POWER SQUADRON 2019 (DLG)
LC0873'RECOVERED IN GOOD CONDITION.
LC0873
LC0873   STATION RECOVERY (2020)
LC0873

DATASHEETS Data Sheet Retrieval
The NGS Data Sheet

See file dsdata.pdf for more information about the datasheet.
PROGRAM = datasheet95, VERSION = 8.12.5.14
Starting Datasheet Retrieval...
1 National Geodetic Survey, Retrieval Date = APRIL 21, 2022
DF4344 ***
DF4344 DESIGNATION - DISTRICT 3 GPS 2084
DF4344 PID - DF4344
DF4344 STATE/COUNTY- IL/PUTNAM
DF4344 COUNTRY - US
DF4344 USGS QUAD - MCNABB (2018)
DF4344
DF4344 *CURRENT SURVEY CONTROL
DF4344 _____
DF4344* NAD 83(2011) POSITION- 41 10 36.60410(N) 089 12 45.43351(W) ADJUSTED
DF4344* NAD 83(2011) ELLIP HT- 175.448 (meters) (06/27/12) ADJUSTED
DF4344* NAD 83(2011) EPOCH - 2010.00
DF4344* NAVD 88 ORTHO HEIGHT - 208.420 (meters) 683.79 (feet) ADJUSTED
DF4344 _____
DF4344 GEOID HEIGHT - -32.967 (meters) GEOID18
DF4344 NAD 83(2011) X - 66,068.691 (meters) COMP
DF4344 NAD 83(2011) Y - -4,807,362.253 (meters) COMP
DF4344 NAD 83(2011) Z - 4,177,340.142 (meters) COMP
DF4344 LAPLACE CORR - 2.34 (seconds) DEFLEC18
DF4344 DYNAMIC HEIGHT - 208.332 (meters) 683.50 (feet) COMP
DF4344 MODELED GRAVITY - 980,196.8 (mgal) NAVD 88
DF4344
DF4344 VERT ORDER - SECOND CLASS I
DF4344
DF4344 Network accuracy estimates per FGDC Geospatial Positioning Accuracy
DF4344 Standards:
DF4344 FGDC (95% conf, cm) Standard deviation (cm) CorrNE
DF4344 Horiz Ellip SD_N SD_E SD_h (unitless)
DF4344 ----------
DF4344 NETWORK 1.71 2.21 0.74 0.65 1.13 -0.08301337
DF4344 ----------
DF4344 Click here for local accuracies and other accuracy information.
DF4344
DF4344
DF4344.The horizontal coordinates were established by GPS observations
DF4344.and adjusted by the National Geodetic Survey in June 2012.
DF4344
DF4344.NAD 83(2011) refers to NAD 83 coordinates where the reference frame has
DF4344.been affixed to the stable North American tectonic plate. See
DF4344.NA2011 for more information.
DF4344
DF4344.The horizontal coordinates are valid at the epoch date displayed above
DF4344.which is a decimal equivalence of Year/Month/Day.
DF4344
DF4344.The orthometric height was determined by differential leveling and
DF4344.adjusted by the NATIONAL GEODETIC SURVEY

DF4344.in January 2016.
DF4344
DF4344.Significant digits in the geoid height do not necessarily reflect accuracy.
DF4344.GEOID18 height accuracy estimate available here.
DF4344
DF4344.Click photographs - Photos may exist for this station.
DF4344
DF4344.The X, Y, and Z were computed from the position and the ellipsoidal ht.
DF4344
DF4344.The Laplace correction was computed from DEFLEC18 derived deflections.
DF4344
DF4344.The ellipsoidal height was determined by GPS observations
DF4344.and is referenced to NAD 83.
DF4344
DF4344.The dynamic height is computed by dividing the NAVD 88
DF4344.geopotential number by the normal gravity value computed on the
DF4344.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
DF4344.degrees latitude (g = 980.6199 gals.).
DF4344
DF4344.The modeled gravity was interpolated from observed gravity values.
DF4344
DF4344. The following values were computed from the NAD 83(2011) position.
DF4344
DF4344; North East Units Scale Factor Converg.
DF4344;SPC IL W - 501,101.645 780,049.734 MT 1.00002001 +0 37 41.4
DF4344;SPC IL W - 1,644,030.98 2,559,213.17 sFT 1.00002001 +0 37 41.4
DF4344;UTM 16 - 4,560,747.664 314,407.238 MT 1.00002394 -1 27 25.8
DF4344
DF4344! - Elev Factor x Scale Factor = Combined Factor
DF4344!SPC IL W - 0.99997248 x 1.00002001 = 0.99999249
DF4344!UTM 16 - 0.99997248 x 1.00002394 = 0.99999642
DF4344
DF4344_U.S. NATIONAL GRID SPATIAL ADDRESS: 16TCL1440760747(NAD 83)
DF4344
DF4344 SUPERSEDED SURVEY CONTROL
DF4344
DF4344 NAD 83(2007)- 41 10 36.60409(N) 089 12 45.43438(W) AD(2002.00) 0
DF4344 ELLIP H (02/10/07) 175.478 (m) GP(2002.00)
DF4344 ELLIP H (02/03/05) 175.477 (m) GP( ) 4 2
DF4344 NAD 83(1997)- 41 10 36.60389(N) 089 12 45.43409(W) AD( ) 1
DF4344 ELLIP H (03/04/03) 175.495 (m) GP( ) 4 2
DF4344 NAVD 88 (03/04/03) 208.4 (m) GEOID99 model used GPS OBS
DF4344
DF4344.Superseded values are not recommended for survey control.
DF4344
DF4344.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.
DF4344.See file dsdata.pdf to determine how the superseded data were derived.
DF4344
DF4344_MARKER: F = FLANGE-ENCASED ROD
DF4344_SETTING: 59 = STAINLESS STEEL ROD IN SLEEVE (10 FT.+)
DF4344_STAMPING: 2084
DF4344_MARK LOGO: ILDT
DF4344_PROJECTION: RECESSED 10 CENTIMETERS
DF4344_MAGNETIC: N = NO MAGNETIC MATERIAL

DF4344_STABILITY: B = PROBABLY HOLD POSITION/ELEVATION WELL
DF4344_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
DF4344+SATELLITE: SATELLITE OBSERVATIONS - February 27, 2020
DF4344_ROD/PIPE-DEPTH: 3.7 meters
DF4344_SLEEVE-DEPTH : 0.8 meters
DF4344
DF4344 HISTORY   - Date   Condition   Report By
DF4344 HISTORY   - 200110 MONUMENTED   ASCPC
DF4344 HISTORY   - 20090623 GOOD   JCLS
DF4344 HISTORY   - 20140819 GOOD   ILDT
DF4344 HISTORY   - 20150416 GOOD   DJHENK
DF4344 HISTORY   - 20200227 GOOD   ILDT
DF4344
DF4344   STATION DESCRIPTION
DF4344
DF4344'DESCRIBED BY AMERICAN SURVEYING CONSULTANTS PC 2001
DF4344'SET POINT N OF 500N RD (MCNABB BLACKTOP) IN MCNABB AT COLEMAN MEMORIAL
DF4344'PARK. 30 FT N OF MCNABB BLACKTOP IN GRASSY LAWN, SW OF WATER TOWER,
DF4344'18 FT W OF P.P., 129 FT E OF P.P., 34.5 FT NE OF STORM INLET.
DF4344
DF4344   STATION RECOVERY (2009)
DF4344
DF4344'RECOVERY NOTE BY JOHN CHANCE LAND SURVEYS INC 2009 (MRY)
DF4344'RECOVERED IN GOOD CONDITION.
DF4344
DF4344   STATION RECOVERY (2014)
DF4344
DF4344'RECOVERY NOTE BY ILLINOIS DEPARTMENT OF TRANSPORTATION 2014 (MW)
DF4344'RECOVERED IN GOOD CONDITION.
DF4344
DF4344   STATION RECOVERY (2015)
DF4344
DF4344'RECOVERY NOTE BY DJ HENKEL AND ASSOCIATES LLC 2015 (TSS)
DF4344'RECOVERED AS DESCRIBED.
DF4344
DF4344   STATION RECOVERY (2020)
DF4344
DF4344'RECOVERY NOTE BY ILLINOIS DEPARTMENT OF TRANSPORTATION 2020 (RS)
DF4344'RECOVERED IN GOOD CONDITION.

*** retrieval complete.
Elapsed Time = 00:00:04

DATASHEETS Data Sheet Retrieval
The NGS Data Sheet

See file dsdata.pdf for more information about the datasheet.
PROGRAM = datasheet95, VERSION = 8.12.5.14
Starting Datasheet Retrieval...
1 National Geodetic Survey, Retrieval Date = APRIL 21, 2022
LC1886 ***
LC1886 DESIGNATION - GOODFIELD 2
LC1886 PID - LC1886
LC1886 STATE/COUNTY- IL/WOODFORD
LC1886 COUNTRY - US
LC1886 USGS QUAD - EUREKA (2018)
LC1886
LC1886 *CURRENT SURVEY CONTROL
LC1886 _____
LC1886* NAD 83(2011) POSITION- 40 37 40.87028(N) 089 16 29.13119(W) ADJUSTED
LC1886* NAD 83(2011) ELLIP HT- 195.405 (meters) (06/27/12) ADJUSTED
LC1886* NAD 83(2011) EPOCH - 2010.00
LC1886* NAVD 88 ORTHO HEIGHT - 227.812 (meters) 747.41 (feet) ADJUSTED
LC1886 _____
LC1886 GEOID HEIGHT - -32.422 (meters) GEOID18
LC1886 NAD 83(2011) X - 61,360.308 (meters) COMP
LC1886 NAD 83(2011) Y - -4,847,350.425 (meters) COMP
LC1886 NAD 83(2011) Z - 4,131,286.727 (meters) COMP
LC1886 LAPLACE CORR - 2.56 (seconds) DEFLEC18
LC1886 DYNAMIC HEIGHT - 227.707 (meters) 747.07 (feet) COMP
LC1886 MODELED GRAVITY - 980,160.9 (mgal) NAVD 88
LC1886
LC1886 VERT ORDER - SECOND CLASS I
LC1886
LC1886 Network accuracy estimates per FGDC Geospatial Positioning Accuracy
LC1886 Standards:
LC1886 FGDC (95% conf, cm) Standard deviation (cm) CorrNE
LC1886 Horiz Ellip SD_N SD_E SD_h (unitless)
LC1886 ----------
LC1886 NETWORK 1.45 1.92 0.66 0.50 0.98 0.03959274
LC1886 ----------
LC1886 Click here for local accuracies and other accuracy information.
LC1886
LC1886
LC1886.The horizontal coordinates were established by GPS observations
LC1886.and adjusted by the National Geodetic Survey in June 2012.
LC1886
LC1886.NAD 83(2011) refers to NAD 83 coordinates where the reference frame has
LC1886.been affixed to the stable North American tectonic plate. See
LC1886.NA2011 for more information.
LC1886
LC1886.The horizontal coordinates are valid at the epoch date displayed above
LC1886.which is a decimal equivalence of Year/Month/Day.
LC1886
LC1886.The orthometric height was determined by differential leveling and
LC1886.adjusted by the NATIONAL GEODETIC SURVEY

LC1886.in March 2016.
LC1886
LC1886.Significant digits in the geoid height do not necessarily reflect accuracy.
LC1886.GEOID18 height accuracy estimate available here.
LC1886
LC1886.Click photographs - Photos may exist for this station.
LC1886
LC1886.The X, Y, and Z were computed from the position and the ellipsoidal ht.
LC1886
LC1886.The Laplace correction was computed from DEFLEC18 derived deflections.
LC1886
LC1886.The ellipsoidal height was determined by GPS observations
LC1886.and is referenced to NAD 83.
LC1886
LC1886.The dynamic height is computed by dividing the NAVD 88
LC1886.geopotential number by the normal gravity value computed on the
LC1886.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
LC1886.degrees latitude (g = 980.6199 gals.).
LC1886
LC1886.The modeled gravity was interpolated from observed gravity values.
LC1886
LC1886. The following values were computed from the NAD 83(2011) position.
LC1886
LC1886; North East Units Scale Factor Converg.
LC1886;SPC IL W - 440,101.849 775,457.169 MT 1.00001124 +0 34 50.8
LC1886;SPC IL W - 1,443,900.82 2,544,145.73 sFT 1.00001124 +0 34 50.8
LC1886;UTM 16 - 4,499,952.557 307,610.023 MT 1.00005562 -1 28 53.9
LC1886
LC1886! - Elev Factor x Scale Factor = Combined Factor
LC1886!SPC IL W - 0.99996935 x 1.00001124 = 0.99998059
LC1886!UTM 16 - 0.99996935 x 1.00005562 = 1.00002497
LC1886
LC1886: Primary Azimuth Mark Grid Az
LC1886:SPC IL W - GOODFIELD AZ MK 100 48 31.5
LC1886:UTM 16 - GOODFIELD AZ MK 102 52 16.2
LC1886
LC1886_U.S. NATIONAL GRID SPATIAL ADDRESS: 16TCK0761099952(NAD 83)
LC1886
LC1886|----------|
LC1886| PID Reference Object Distance Geod. Az |
LC1886| dddmmss.s |
LC1886| LC0934 GOODFIELD AZ MK 1012322.3 |
LC1886| LC0931 GOODFIELD RM 1 14.099 METERS 12631 |
LC1886| LC0932 GOODFIELD 181.557 METERS 18546 |
LC1886| LC0930 PT STA 73 F 21.383 METERS 18548 |
LC1886|----------|
LC1886
LC1886 SUPERSEDED SURVEY CONTROL
LC1886
LC1886 NAD 83(2007)- 40 37 40.87010(N) 089 16 29.13230(W) AD(2002.00) 0
LC1886 ELLIP H (02/10/07) 195.430 (m) GP(2002.00)
LC1886 ELLIP H (02/03/05) 195.427 (m) GP( ) 4 2
LC1886 NAD 83(1997)- 40 37 40.87006(N) 089 16 29.13212(W) AD( ) 1
LC1886 ELLIP H (03/04/03) 195.439 (m) GP( ) 4 2

LC1886 NAD 83(1997)- 40 37 40.87385(N)   089 16 29.13415(W) AD(   ) 2
LC1886 NAD 83(1986)- 40 37 40.88692(N)   089 16 29.13678(W) AD(   ) 2
LC1886 NAD 27   - 40 37 40.75260(N)   089 16 28.82450(W) AD(   ) 2
LC1886 NAVD 88 (03/04/03) 227.9   (m) GEOID99 model used   GPS OBS
LC1886 NGVD 29   227.88   (m)   747.6   (f) LEVELING   3
LC1886
LC1886.Superseded values are not recommended for survey control.
LC1886
LC1886.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.
LC1886.See file dsdata.pdf to determine how the superseded data were derived.
LC1886
LC1886_MARKER: DS = TRIANGULATION STATION DISK
LC1886_SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT
LC1886_STAMPING: GOODFIELD 2 1961
LC1886_MARK LOGO: CGS
LC1886_PROJECTION: RECESSED 10 CENTIMETERS
LC1886_MAGNETIC: N = NO MAGNETIC MATERIAL
LC1886_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO
LC1886+STABILITY: SURFACE MOTION
LC1886_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
LC1886+SATELLITE: SATELLITE OBSERVATIONS - August 27, 2020
LC1886
LC1886 HISTORY   - Date   Condition   Report By
LC1886 HISTORY   - 1961   MONUMENTED   CGS
LC1886 HISTORY   - 19981023 MARK NOT FOUND USPSQD
LC1886 HISTORY   - 200205 GOOD   ASCPC
LC1886 HISTORY   - 20150914 GOOD   DJHENK
LC1886 HISTORY   - 20200827 GOOD   ILDT
LC1886
LC1886   STATION DESCRIPTION
LC1886
LC1886'DESCRIBED BY COAST AND GEODETIC SURVEY 1961 (CAA)
LC1886'THE STATION IS LOCATED IN THE EAST EDGE OF GOODFIELD, IN THE NORTHEAST
LC1886'ANGLE OF THE INTERSECTION OF U.S. HIGHWAY 150 AND STATE HIGHWAY 117.
LC1886'
LC1886'THE STATION MARK IS A STANDARD TRIANGULATION STATION MARK DISK SET IN
LC1886'TOP OF A 14 INCH SQUARE CONCRETE POST WHICH IS SET FLUSH WITH THE
LC1886'SURFACE OF THE GROUND AND IS STAMPED GOODFIELD 2 1961. THE MARK IS
LC1886'102.5 FEET NORTH OF THE CENTER OF U.S. HIGHWAY 150, 51.5 FEET EAST OF
LC1886'THE CENTER OF STATE HIGHWAY 117, 36 FEET SOUTHEAST OF FENCE CORNER, 9
LC1886'FEET SOUTH OF FENCE AND 7.6 FEET SOUTH-SOUTHWEST OF WITNESS POST.
LC1886'
LC1886'REFERENCE MARK NO. 1 IS A STANDARD REFERENCE MARK DISK SET IN TOP OF A
LC1886'12 INCH SQUARE CONCRETE POST WHICH IS SET FLUSH WITH THE SURFACE OF
LC1886'GROUND AND IS STAMPED GOODFIELD 2 NO 1 1961. THE MARK IS 88 FEET EAST
LC1886'OF THE CENTER OF STATE HIGHWAY 117, 75.5 FEET NORTH OF THE CENTER OF
LC1886'U.S. HIGHWAY 150, 61 FEET NORTHWEST OF FENCE CORNER AND 45.5 FEET
LC1886'NORTH-NORTHEAST OF TELEPHONE POLE.
LC1886'
LC1886'P T 73 F (USGS) 1925, IS A STANDARD U.S. GEOLOGICAL SURVEY BENCH MARK
LC1886'DISK SET IN TOP OF A 10 INCH SQUARE CONCRETE POST WHICH PROJECTS ABOUT
LC1886'6 INCHES AND IS STAMPED P T 73 F 1925. THE MARK IS 80 FEET SOUTH OF
LC1886'FENCE, 76.5 FEET SOUTH OF WITNESS POST, 43 FEET EAST OF CENTER OF
LC1886'STATE HIGHWAY 117, 33 FEET NORTH OF CENTER OF U.S. HIGHWAY 150, 25

LC1886'FEET WEST OF TELEPHONE POLE AND 2 FEET EAST OF A LARGE WHITE POST.
LC1886'
LC1886'AZIMUTH MARK IS A STANDARD AZIMUTH MARK DISK SET IN TOP OF A 12 INCH
LC1886'SQUARE CONCRETE POST WHICH IS SET FLUSH WITH THE SURFACE OF THE GROUND
LC1886'AND IS STAMPED GOODFIELD 1959. THE MARK IS 117.5 FEET WEST OF FENCE
LC1886'CORNER, 36.5 FEET EAST OF TELEPHONE POLE, 31.5 FEET NORTH OF CENTER OF
LC1886'U.S. HIGHWAY 150, 1.8 FEET SOUTH OF FENCE AND 1.6 FEET SOUTH OF
LC1886'WITNESS POST.
LC1886'
LC1886'TO REACH THE AZIMUTH MARK FROM THE STATION, GO EAST ON U.S. HIGHWAY
LC1886'150 FOR 0.2 MILE TO THE MARK ON (LEFT) NORTH SIDE OF ROAD AS
LC1886'DESCRIBED.
LC1886'
LC1886'NOTE-THE 1959 TRAVERSE DISTANCE FROM GOODFIELD 1959 TO P T 73 F (USGS)
LC1886'1925 IS 525.50 FEET OR 160.174 METERS.
LC1886'
LC1886'THE STATION GOODFIELD 1959 WAS DESTROYED AFTER THE 1961 OBSERVATIONS
LC1886'WERE MADE AS REQUESTED BY THE ILLINOIS STATE HIGHWAY DEPARTMENT TO
LC1886'CLEAR THE WAY FOR WIDENING OF STATE HIGHWAY 117.
LC1886'
LC1886'TRAVERSE CONNECTION WAS MADE FROM GOODFIELD 2 TO PT 73 F (USGS) THE
LC1886'DISTANCE IS SHOWN ABOVE.
LC1886
LC1886 STATION RECOVERY (1998)
LC1886
LC1886'RECOVERY NOTE BY US POWER SQUADRON 1998
LC1886'MARK NOT FOUND.
LC1886
LC1886 STATION RECOVERY (2002)
LC1886
LC1886'RECOVERY NOTE BY AMERICAN SURVEYING CONSULTANTS PC 2002
LC1886'RECOVERED AS DESCRIBED
LC1886
LC1886 STATION RECOVERY (2015)
LC1886
LC1886'RECOVERY NOTE BY DJ HENKEL AND ASSOCIATES LLC 2015 (TSS)
LC1886'RECOVERED AS DESCRIBED.
LC1886
LC1886 STATION RECOVERY (2020)
LC1886
LC1886'RECOVERY NOTE BY ILLINOIS DEPARTMENT OF TRANSPORTATION 2020 (DL)
LC1886'RECOVERED IN GOOD CONDITION.

*** retrieval complete.
Elapsed Time = 00:00:04

DATASHEETS Data Sheet Retrieval
The NGS Data Sheet

See file dsdata.pdf for more information about the datasheet.
PROGRAM = datasheet95, VERSION = 8.12.5.14
Starting Datasheet Retrieval...
1 National Geodetic Survey, Retrieval Date = APRIL 21, 2022
LC0675 ***
LC0675 DESIGNATION - H 172
LC0675 PID - LC0675
LC0675 STATE/COUNTY- IL/MCLEAN
LC0675 COUNTRY - US
LC0675 USGS QUAD - NORMAL EAST (2018)
LC0675
LC0675 *CURRENT SURVEY CONTROL
LC0675 _____
LC0675* NAD 83(2011) POSITION- 40 33 41.74011(N) 088 59 20.73151(W) ADJUSTED
LC0675* NAD 83(2011) ELLIP HT- 220.977 (meters) (06/27/12) ADJUSTED
LC0675* NAD 83(2011) EPOCH - 2010.00
LC0675* NAVD 88 ORTHO HEIGHT - 253.041 (meters) 830.19 (feet) ADJUSTED
LC0675 _____
LC0675 GEOID HEIGHT - -32.071 (meters) GEOID18
LC0675 NAD 83(2011) X - 85,612.499 (meters) COMP
LC0675 NAD 83(2011) Y - -4,851,802.831 (meters) COMP
LC0675 NAD 83(2011) Z - 4,125,702.180 (meters) COMP
LC0675 LAPLACE CORR - 1.69 (seconds) DEFLEC18
LC0675 DYNAMIC HEIGHT - 252.924 (meters) 829.80 (feet) COMP
LC0675 MODELED GRAVITY - 980,154.6 (mgal) NAVD 88
LC0675
LC0675 VERT ORDER - FIRST CLASS I
LC0675
LC0675 Network accuracy estimates per FGDC Geospatial Positioning Accuracy
LC0675 Standards:
LC0675 FGDC (95% conf, cm) Standard deviation (cm) CorrNE
LC0675 Horiz Ellip SD_N SD_E SD_h (unitless)
LC0675 ----------
LC0675 NETWORK 2.48 3.06 1.15 0.79 1.56 0.27521465
LC0675 ----------
LC0675 Click here for local accuracies and other accuracy information.
LC0675
LC0675
LC0675.The horizontal coordinates were established by GPS observations
LC0675.and adjusted by the National Geodetic Survey in June 2012.
LC0675
LC0675.NAD 83(2011) refers to NAD 83 coordinates where the reference frame has
LC0675.been affixed to the stable North American tectonic plate. See
LC0675.NA2011 for more information.
LC0675
LC0675.The horizontal coordinates are valid at the epoch date displayed above
LC0675.which is a decimal equivalence of Year/Month/Day.
LC0675
LC0675.The orthometric height was determined by differential leveling and
LC0675.adjusted by the NATIONAL GEODETIC SURVEY

LC0675.in June 1991.
LC0675
LC0675.Significant digits in the geoid height do not necessarily reflect accuracy.
LC0675.GEOID18 height accuracy estimate available here.
LC0675
LC0675.Click photographs - Photos may exist for this station.
LC0675
LC0675.The X, Y, and Z were computed from the position and the ellipsoidal ht.
LC0675
LC0675.The Laplace correction was computed from DEFLEC18 derived deflections.
LC0675
LC0675.The ellipsoidal height was determined by GPS observations
LC0675.and is referenced to NAD 83.
LC0675
LC0675.The dynamic height is computed by dividing the NAVD 88
LC0675.geopotential number by the normal gravity value computed on the
LC0675.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
LC0675.degrees latitude (g = 980.6199 gals.).
LC0675
LC0675.The modeled gravity was interpolated from observed gravity values.
LC0675
LC0675. The following values were computed from the NAD 83(2011) position.
LC0675
LC0675; North East Units Scale Factor Converg.
LC0675;SPC IL E - 432,564.886 244,464.868 MT 1.00001295 -0 25 35.1
LC0675;SPC IL E - 1,419,173.30 802,048.49 sFT 1.00001295 -0 25 35.1
LC0675;UTM 16 - 4,491,992.890 331,605.514 MT 0.99994905 -1 17 37.5
LC0675
LC0675! - Elev Factor x Scale Factor = Combined Factor
LC0675!SPC IL E - 0.99996534 x 1.00001295 = 0.99997829
LC0675!UTM 16 - 0.99996534 x 0.99994905 = 0.99991439
LC0675
LC0675_U.S. NATIONAL GRID SPATIAL ADDRESS: 16TCK3160591992(NAD 83)
LC0675
LC0675 SUPERSEDED SURVEY CONTROL
LC0675
LC0675 NAD 83(2007)- 40 33 41.74017(N) 088 59 20.73243(W) AD(2002.00) 0
LC0675 ELLIP H (02/10/07) 221.001 (m) GP(2002.00)
LC0675 ELLIP H (02/03/05) 221.032 (m) GP( ) 4 2
LC0675 NAD 83(1997)- 40 33 41.74007(N) 088 59 20.73239(W) AD( ) 1
LC0675 ELLIP H (03/04/03) 220.991 (m) GP( ) 4 2
LC0675 NAVD 88 253.04 (m) 830.2 (f) LEVELING 3
LC0675 NGVD 29 (??/??/92) 253.093 (m) 830.36 (f) ADJ UNCH 1 1
LC0675
LC0675.Superseded values are not recommended for survey control.
LC0675
LC0675.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.
LC0675.See file dsdata.pdf to determine how the superseded data were derived.
LC0675
LC0675_MARKER: DB = BENCH MARK DISK
LC0675_SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT
LC0675_STAMPING: H 172 1954
LC0675_MARK LOGO: CGS
LC0675_MAGNETIC: N = NO MAGNETIC MATERIAL

LC0675_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO
LC0675+STABILITY: SURFACE MOTION
LC0675_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
LC0675+SATELLITE: SATELLITE OBSERVATIONS - March 22, 2004
LC0675
LC0675 HISTORY   - Date   Condition   Report By
LC0675 HISTORY   - 1954   MONUMENTED   CGS
LC0675 HISTORY   - 1969   GOOD   CGS
LC0675 HISTORY   - 200205 GOOD   ASCPC
LC0675 HISTORY   - 20040322 GOOD   USPSQD
LC0675
LC0675   STATION DESCRIPTION
LC0675
LC0675'DESCRIBED BY COAST AND GEODETIC SURVEY 1969
LC0675'3.7 MI N FROM NORMAL.
LC0675'ABOUT 3.7 MILES NORTH ALONG THE ILLINOIS CENTRAL RAILROAD FROM
LC0675'THE STATION AT NORMAL, 106 FEET NORTHWEST OF THE CENTER OF A
LC0675'CROSSING OF THE RAILROAD AND A DIRT ROAD, 95 1/2 FEET WEST OF THE
LC0675'WEST RAIL, 36 1/2 FEET NORTH OF THE CENTER LINE OF THE ROAD,
LC0675'72 FEET NORTH AND ACROSS THE ROAD FROM A TELEPHONE POLE, 2 1/2
LC0675'FEET EAST OF A FENCE, 1.0 FOOT NORTHWEST OF A METAL WITNESS POST,
LC0675'ABOUT 3 1/2 FEET BELOW THE LEVEL OF THE TRACK, AND SET IN THE
LC0675'TOP OF A CONCRETE POST WHICH PROJECTS 2 INCHES ABOVE THE SURFACE
LC0675'OF THE GROUND. SEC 4, T24N, R2E
LC0675
LC0675   STATION RECOVERY (2002)
LC0675
LC0675'RECOVERY NOTE BY AMERICAN SURVEYING CONSULTANTS PC 2002
LC0675'RECOVERED AS DESCRIBED
LC0675
LC0675   STATION RECOVERY (2004)
LC0675
LC0675'RECOVERY NOTE BY US POWER SQUADRON 2004 (GEM)
LC0675'ILLINOIS CENTRAL RAILROAD TRACKS ARE REMOVED AND PROPERTY RECLAIMED BY
LC0675'ADJOINING PROPERTY OWNERS. FENCES ARE REMOVED. DIRT ROAD IS NOW
LC0675'ASPHALT, NUMBERED 1900 NORTH. MARK IS 35'9 NORTH OF THE CENTER LINE,
LC0675'1' FROM WITNESS POST WHICH HAS BEEN DAMAGED BY SHOTGUN PELLETS. GPS
LC0675'N40 33'45.2 W088 59'19.8(NON WAAS)

*** retrieval complete.
Elapsed Time = 00:00:04

DATASHEETS Data Sheet Retrieval
The NGS Data Sheet

See file dsdata.pdf for more information about the datasheet.
PROGRAM = datasheet95, VERSION = 8.12.5.14
Starting Datasheet Retrieval...
1 National Geodetic Survey, Retrieval Date = APRIL 21, 2022
DN1871 **********
DN1871 DESIGNATION - ILDOT D4 1953
DN1871 PID - DN1871
DN1871 STATE/COUNTY- IL/MARSHALL
DN1871 COUNTRY - US
DN1871 USGS QUAD - LA PRAIRIE CENTER (2018)
DN1871
DN1871 *CURRENT SURVEY CONTROL
DN1871 _____
DN1871* NAD 83(2011) POSITION- 41 01 54.66022(N) 089 37 14.27056(W) ADJUSTED
DN1871* NAD 83(2011) ELLIP HT- 211.793 (meters) (06/27/12) ADJUSTED
DN1871* NAD 83(2011) EPOCH - 2010.00
DN1871* NAVD 88 ORTHO HEIGHT - 244.820 (meters) 803.21 (feet) ADJUSTED
DN1871 _____
DN1871 GEOID HEIGHT - -33.030 (meters) GEOID18
DN1871 NAD 83(2011) X - 31,903.760 (meters) COMP
DN1871 NAD 83(2011) Y - -4,818,323.881 (meters) COMP
DN1871 NAD 83(2011) Z - 4,165,231.064 (meters) COMP
DN1871 LAPLACE CORR - 0.88 (seconds) DEFLEC18
DN1871 DYNAMIC HEIGHT - 244.710 (meters) 802.85 (feet) COMP
DN1871 MODELED GRAVITY - 980,172.2 (mgal) NAVD 88
DN1871
DN1871 VERT ORDER - SECOND CLASS I
DN1871
DN1871 Network accuracy estimates per FGDC Geospatial Positioning Accuracy
DN1871 Standards:
DN1871 FGDC (95% conf, cm) Standard deviation (cm) CorrNE
DN1871 Horiz Ellip SD_N SD_E SD_h (unitless)
DN1871 ----------
DN1871 NETWORK 0.46 0.73 0.21 0.16 0.37 -0.00992350
DN1871 ----------
DN1871 Click here for local accuracies and other accuracy information.
DN1871
DN1871
DN1871.The horizontal coordinates were established by GPS observations
DN1871.and adjusted by the National Geodetic Survey in June 2012.
DN1871
DN1871.NAD 83(2011) refers to NAD 83 coordinates where the reference frame has
DN1871.been affixed to the stable North American tectonic plate. See
DN1871.NA2011 for more information.
DN1871
DN1871.The horizontal coordinates are valid at the epoch date displayed above
DN1871.which is a decimal equivalence of Year/Month/Day.
DN1871
DN1871.The orthometric height was determined by differential leveling and
DN1871.adjusted by the NATIONAL GEODETIC SURVEY

DN1871.in November 2014.
DN1871
DN1871.Significant digits in the geoid height do not necessarily reflect accuracy.
DN1871.GEOID18 height accuracy estimate available here.
DN1871
DN1871.Click photographs - Photos may exist for this station.
DN1871
DN1871.The X, Y, and Z were computed from the position and the ellipsoidal ht.
DN1871
DN1871.The Laplace correction was computed from DEFLEC18 derived deflections.
DN1871
DN1871.The ellipsoidal height was determined by GPS observations
DN1871.and is referenced to NAD 83.
DN1871
DN1871.The dynamic height is computed by dividing the NAVD 88
DN1871.geopotential number by the normal gravity value computed on the
DN1871.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
DN1871.degrees latitude (g = 980.6199 gals.).
DN1871
DN1871.The modeled gravity was interpolated from observed gravity values.
DN1871
DN1871. The following values were computed from the NAD 83(2011) position.
DN1871
DN1871;   North   East   Units Scale Factor Converg.
DN1871;SPC IL W   -   484,706.037   745,916.111   MT 0.99996712   +0 21 30.5
DN1871;SPC IL W   - 1,590,239.72 2,447,226.44   sFT 0.99996712   +0 21 30.5
DN1871;UTM 16   - 4,545,601.439   279,696.323   MT 1.00019738   -1 43 15.9
DN1871
DN1871!   - Elev Factor x Scale Factor =   Combined Factor
DN1871!SPC IL W   -   0.99996678 x   0.99996712 =   0.99993390
DN1871!UTM 16   -   0.99996678 x   1.00019738 =   1.00016415
DN1871
DN1871_U.S. NATIONAL GRID SPATIAL ADDRESS: 16TBL7969645601(NAD 83)
DN1871
DN1871   SUPERSEDED SURVEY CONTROL
DN1871
DN1871 NAD 83(2007)- 41 01 54.65999(N)   089 37 14.27144(W) AD(2002.00) 1
DN1871 ELLIP H (08/01/11) 211.836 (m)   GP(2002.00) 3 1
DN1871 NAVD 88 (08/01/11) 244.8   (m) GEOID09 model used   GPS OBS
DN1871
DN1871.Superseded values are not recommended for survey control.
DN1871
DN1871.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.
DN1871.See file dsdata.pdf to determine how the superseded data were derived.
DN1871
DN1871_MARKER: F = FLANGE-ENCASED ROD
DN1871_SETTING: 59 = STAINLESS STEEL ROD IN SLEEVE (10 FT.+)
DN1871_STAMPING: ILDOT D4 1953
DN1871_MARK LOGO: ILDT
DN1871_PROJECTION: FLUSH
DN1871_MAGNETIC: N = NO MAGNETIC MATERIAL
DN1871_STABILITY: A = MOST RELIABLE AND EXPECTED TO HOLD
DN1871+STABILITY: POSITION/ELEVATION WELL
DN1871_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR

DN1871+SATELLITE: SATELLITE OBSERVATIONS - March 26, 2014
DN1871_ROD/PIPE-DEPTH: 6.1 meters
DN1871_SLEEVE-DEPTH : 0.3 meters
DN1871
DN1871 HISTORY   - Date   Condition   Report By
DN1871 HISTORY   - 19940404 MONUMENTED   ILDT
DN1871 HISTORY   - 20130814 GOOD   ILDT
DN1871 HISTORY   - 20140326 GOOD   PATRIC
DN1871
DN1871   STATION DESCRIPTION
DN1871
DN1871'DESCRIBED BY ILLINOIS DEPARTMENT OF TRANSPORTATION 1994
DN1871'THE STATION IS LOCATED 3.2 MILES SOUTH OF CAMP GROVE. TO REACH THE
DN1871'STATION FROM THE INTERSECTION OF IL 17 AND IL 40 3 MILES SOUTH OF CAMP
DN1871'GROVE PROCEED EAST ON IL 17 FOR 0.5 MILES TO THE STATION ON THE
DN1871'RIGHT. 34 FEET SOUTH OF THE CENTERLINE OF IL 17. 4 NORTH OF A NAIL AND
DN1871'WASHER IN A FENCEPOST. 1 FOOT NORTH OF A WITNESS POST AND FLUSH WITH
DN1871'THE SURFACE OF THE GROUND. NOTE ACCESS TO THE MONUMENT IS THROUGH A 6
DN1871'INCH ACCESS COVER.
DN1871
DN1871   STATION RECOVERY (2013)
DN1871
DN1871'RECOVERY NOTE BY ILLINOIS DEPARTMENT OF TRANSPORTATION 2013 (MW)
DN1871'RECOVERED IN GOOD CONDITION.
DN1871
DN1871   STATION RECOVERY (2014)
DN1871
DN1871'RECOVERY NOTE BY PATRICK ENGINEERING INCORPORATED 2014 (SAL)
DN1871'RECOVERED AS DESCRIBED.

*** retrieval complete.
Elapsed Time = 00:00:04

DATASHEETS Data Sheet Retrieval
The NGS Data Sheet

See file dsdata.pdf for more information about the datasheet.
PROGRAM = datasheet95, VERSION = 8.12.5.14
Starting Datasheet Retrieval...
1 National Geodetic Survey, Retrieval Date = APRIL 21, 2022
DN1911 ***
DN1911 DESIGNATION - ILDOT D4 4906
DN1911 PID - DN1911
DN1911 STATE/COUNTY- IL/FULTON
DN1911 COUNTRY - US
DN1911 USGS QUAD - DUNCAN MILLS (2018)
DN1911
DN1911 *CURRENT SURVEY CONTROL
DN1911 _____
DN1911* NAD 83(2011) POSITION- 40 18 16.14546(N) 090 11 28.91217(W) ADJUSTED
DN1911* NAD 83(2011) ELLIP HT- 142.288 (meters) (06/27/12) ADJUSTED
DN1911* NAD 83(2011) EPOCH - 2010.00
DN1911* NAVD 88 ORTHO HEIGHT - 175.357 (meters) 575.32 (feet) ADJUSTED
DN1911 _____
DN1911 GEOID HEIGHT - -33.065 (meters) GEOID18
DN1911 NAD 83(2011) X - -16,268.871 (meters) COMP
DN1911 NAD 83(2011) Y - -4,870,988.057 (meters) COMP
DN1911 NAD 83(2011) Z - 4,103,919.135 (meters) COMP
DN1911 LAPLACE CORR - -0.05 (seconds) DEFLEC18
DN1911 DYNAMIC HEIGHT - 175.271 (meters) 575.03 (feet) COMP
DN1911 MODELED GRAVITY - 980,128.1 (mgal) NAVD 88
DN1911
DN1911 VERT ORDER - SECOND CLASS I
DN1911
DN1911 Network accuracy estimates per FGDC Geospatial Positioning Accuracy
DN1911 Standards:
DN1911 FGDC (95% conf, cm) Standard deviation (cm) CorrNE
DN1911 Horiz Ellip SD_N SD_E SD_h (unitless)
DN1911 ----------
DN1911 NETWORK 0.47 0.74 0.21 0.17 0.38 0.00734001
DN1911 ----------
DN1911 Click here for local accuracies and other accuracy information.
DN1911
DN1911
DN1911.The horizontal coordinates were established by GPS observations
DN1911.and adjusted by the National Geodetic Survey in June 2012.
DN1911
DN1911.NAD 83(2011) refers to NAD 83 coordinates where the reference frame has
DN1911.been affixed to the stable North American tectonic plate. See
DN1911.NA2011 for more information.
DN1911
DN1911.The horizontal coordinates are valid at the epoch date displayed above
DN1911.which is a decimal equivalence of Year/Month/Day.
DN1911
DN1911.The orthometric height was determined by differential leveling and
DN1911.adjusted by the IL DEPT OF TRANSP

DN1911.in July 2015.
DN1911
DN1911.Significant digits in the geoid height do not necessarily reflect accuracy.
DN1911.GEOID18 height accuracy estimate available here.
DN1911
DN1911.Click photographs - Photos may exist for this station.
DN1911
DN1911.The X, Y, and Z were computed from the position and the ellipsoidal ht.
DN1911
DN1911.The Laplace correction was computed from DEFLEC18 derived deflections.
DN1911
DN1911.The ellipsoidal height was determined by GPS observations
DN1911.and is referenced to NAD 83.
DN1911
DN1911.The dynamic height is computed by dividing the NAVD 88
DN1911.geopotential number by the normal gravity value computed on the
DN1911.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
DN1911.degrees latitude (g = 980.6199 gals.).
DN1911
DN1911.The modeled gravity was interpolated from observed gravity values.
DN1911
DN1911. The following values were computed from the NAD 83(2011) position.
DN1911
DN1911; North East Units Scale Factor Converg.
DN1911;SPC IL W - 403,795.356 697,900.478 MT 0.99994123 -0 00 57.5
DN1911;SPC IL W - 1,324,785.26 2,289,695.15 sFT 0.99994123 -0 00 57.5
DN1911;UTM 15 - 4,465,338.884 738,691.818 MT 1.00030139 +1 49 03.4
DN1911
DN1911! - Elev Factor x Scale Factor = Combined Factor
DN1911!SPC IL W - 0.99997768 x 0.99994123 = 0.99991891
DN1911!UTM 15 - 0.99997768 x 1.00030139 = 1.00027906
DN1911
DN1911_U.S. NATIONAL GRID SPATIAL ADDRESS: 15TYE3869165338(NAD 83)
DN1911
DN1911 SUPERSEDED SURVEY CONTROL
DN1911
DN1911 NAD 83(2007)- 40 18 16.14558(N) 090 11 28.91297(W) AD(2002.00) 1
DN1911 ELLIP H (08/01/11) 142.297 (m) GP(2002.00) 3 1
DN1911 NAVD 88 (08/01/11) 175.3 (m) GEOID09 model used GPS OBS
DN1911
DN1911.Superseded values are not recommended for survey control.
DN1911
DN1911.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.
DN1911.See file dsdata.pdf to determine how the superseded data were derived.
DN1911
DN1911_MARKER: F = FLANGE-ENCASED ROD
DN1911_SETTING: 59 = STAINLESS STEEL ROD IN SLEEVE (10 FT.+)
DN1911_STAMPING: ILDOT D4 4906
DN1911_MARK LOGO: ILDT
DN1911_PROJECTION: RECESSED 10 CENTIMETERS
DN1911_MAGNETIC: M = MARKER EQUIPPED WITH BAR MAGNET
DN1911_STABILITY: A = MOST RELIABLE AND EXPECTED TO HOLD
DN1911+STABILITY: POSITION/ELEVATION WELL
DN1911_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR

DN1911+SATELLITE: SATELLITE OBSERVATIONS - December 01, 2020
DN1911_ROD/PIPE-DEPTH: 6.1 meters
DN1911_SLEEVE-DEPTH : 0.3 meters
DN1911
DN1911 HISTORY   - Date   Condition   Report By
DN1911 HISTORY   - 19940404 MONUMENTED   ILDT
DN1911 HISTORY   - 20141001 GOOD   DJHENK
DN1911 HISTORY   - 20201201 GOOD   ILDT
DN1911
DN1911   STATION DESCRIPTION
DN1911
DN1911'DESCRIBED BY ILLINOIS DEPARTMENT OF TRANSPORTATION 1994
DN1911'THE STATION IS LOCATED IN THE NORTHWEST ANGLE OF THE SOUTHERNMOST
DN1911'INTERSECTION OF US 24 AND US 136 2.3 MILES SOUTH OF DUNCAN MILLS. 51
DN1911'FEET NORTHWEST OF THE CENTERLINE OF US 24 IN A CURVE TO THE RIGHT. 71
DN1911'FEET SOUTH OF THE CENTERLINE OF E OTTO RD (FULTON CO. 800 N). 104 FEET
DN1911'NORTH OF A NAIL AND WASHER IN A POWER POLE. 153 FEET SOUTH OF A NAIL
DN1911'AND WASHER IN A POWER POLE. 1 FOOT EAST OF A WITNESS POST AND FLUSH
DN1911'WITH THE SURFACE OF THE GROUND. NOTE ACCESS TO THE MONUMENT IS THROUGH
DN1911'A 6 INCH ACCESS COVER.
DN1911
DN1911   STATION RECOVERY (2014)
DN1911
DN1911'RECOVERY NOTE BY DJ HENKEL AND ASSOCIATES LLC 2014 (TSS)
DN1911'RECOVERED AS DESCRIBED.
DN1911
DN1911   STATION RECOVERY (2020)
DN1911
DN1911'RECOVERY NOTE BY ILLINOIS DEPARTMENT OF TRANSPORTATION 2020 (DL)
DN1911'RECOVERED IN GOOD CONDITION.

*** retrieval complete.
Elapsed Time = 00:00:03

DATASHEETS Data Sheet Retrieval
The NGS Data Sheet

See file dsdata.pdf for more information about the datasheet.
PROGRAM = datasheet95, VERSION = 8.12.5.14
Starting Datasheet Retrieval...
1 National Geodetic Survey, Retrieval Date = APRIL 21, 2022
DN1921 ***
DN1921 DESIGNATION - ILDOT D4 5354
DN1921 PID - DN1921
DN1921 STATE/COUNTY- IL/KNOX
DN1921 COUNTRY - US
DN1921 USGS QUAD - WATAGA (2018)
DN1921
DN1921 *CURRENT SURVEY CONTROL
DN1921 _____
DN1921* NAD 83(2011) POSITION- 41 02 04.03746(N) 090 16 24.95350(W) ADJUSTED
DN1921* NAD 83(2011) ELLIP HT- 215.797 (meters) (06/27/12) ADJUSTED
DN1921* NAD 83(2011) EPOCH - 2010.00
DN1921* NAVD 88 ORTHO HEIGHT - 248.693 (meters) 815.92 (feet) ADJUSTED
DN1921 _____
DN1921 GEOID HEIGHT - -32.892 (meters) GEOID18
DN1921 NAD 83(2011) X - -23,007.933 (meters) COMP
DN1921 NAD 83(2011) Y - -4,818,187.676 (meters) COMP
DN1921 NAD 83(2011) Z - 4,165,451.908 (meters) COMP
DN1921 LAPLACE CORR - 0.22 (seconds) DEFLEC18
DN1921 DYNAMIC HEIGHT - 248.585 (meters) 815.57 (feet) COMP
DN1921 MODELED GRAVITY - 980,184.1 (mgal) NAVD 88
DN1921
DN1921 VERT ORDER - SECOND CLASS I
DN1921
DN1921 Network accuracy estimates per FGDC Geospatial Positioning Accuracy
DN1921 Standards:
DN1921 FGDC (95% conf, cm) Standard deviation (cm) CorrNE
DN1921 Horiz Ellip SD_N SD_E SD_h (unitless)
DN1921 ----------
DN1921 NETWORK 0.50 0.78 0.22 0.18 0.40 -0.16028832
DN1921 ----------
DN1921 Click here for local accuracies and other accuracy information.
DN1921
DN1921
DN1921.The horizontal coordinates were established by GPS observations
DN1921.and adjusted by the National Geodetic Survey in June 2012.
DN1921
DN1921.NAD 83(2011) refers to NAD 83 coordinates where the reference frame has
DN1921.been affixed to the stable North American tectonic plate. See
DN1921.NA2011 for more information.
DN1921
DN1921.The horizontal coordinates are valid at the epoch date displayed above
DN1921.which is a decimal equivalence of Year/Month/Day.
DN1921
DN1921.The orthometric height was determined by differential leveling and
DN1921.adjusted by the NATIONAL GEODETIC SURVEY

DN1921.in November 2014.
DN1921
DN1921.Significant digits in the geoid height do not necessarily reflect accuracy.
DN1921.GEOID18 height accuracy estimate available here.
DN1921
DN1921.Click photographs - Photos may exist for this station.
DN1921
DN1921.The X, Y, and Z were computed from the position and the ellipsoidal ht.
DN1921
DN1921.The Laplace correction was computed from DEFLEC18 derived deflections.
DN1921
DN1921.The ellipsoidal height was determined by GPS observations
DN1921.and is referenced to NAD 83.
DN1921
DN1921.The dynamic height is computed by dividing the NAVD 88
DN1921.geopotential number by the normal gravity value computed on the
DN1921.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
DN1921.degrees latitude (g = 980.6199 gals.).
DN1921
DN1921.The modeled gravity was interpolated from observed gravity values.
DN1921
DN1921. The following values were computed from the NAD 83(2011) position.
DN1921
DN1921; North East Units Scale Factor Converg.
DN1921;SPC IL W - 484,857.167 691,008.511 MT 0.99994217 -0 04 12.7
DN1921;SPC IL W - 1,590,735.56 2,267,083.76 sFT 0.99994217 -0 04 12.7
DN1921;UTM 15 - 4,546,163.243 729,187.216 MT 1.00024653 +1 47 26.5
DN1921
DN1921! - Elev Factor x Scale Factor = Combined Factor
DN1921!SPC IL W - 0.99996615 x 0.99994217 = 0.99990832
DN1921!UTM 15 - 0.99996615 x 1.00024653 = 1.00021267
DN1921
DN1921_U.S. NATIONAL GRID SPATIAL ADDRESS: 15TYF2918746163(NAD 83)
DN1921
DN1921 SUPERSEDED SURVEY CONTROL
DN1921
DN1921 NAD 83(2007)- 41 02 04.03733(N) 090 16 24.95418(W) AD(2002.00) 1
DN1921 ELLIP H (08/01/11) 215.833 (m) GP(2002.00) 3 1
DN1921 NAVD 88 (08/01/11) 248.7 (m) GEOID09 model used GPS OBS
DN1921
DN1921.Superseded values are not recommended for survey control.
DN1921
DN1921.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.
DN1921.See file dsdata.pdf to determine how the superseded data were derived.
DN1921
DN1921_MARKER: F = FLANGE-ENCASED ROD
DN1921_SETTING: 59 = STAINLESS STEEL ROD IN SLEEVE (10 FT.+)
DN1921_STAMPING: ILDOT D4 5354
DN1921_MARK LOGO: ILDT
DN1921_PROJECTION: FLUSH
DN1921_MAGNETIC: N = NO MAGNETIC MATERIAL
DN1921_STABILITY: A = MOST RELIABLE AND EXPECTED TO HOLD
DN1921+STABILITY: POSITION/ELEVATION WELL
DN1921_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR

DN1921+SATELLITE: SATELLITE OBSERVATIONS - March 26, 2014
DN1921_ROD/PIPE-DEPTH: 6.1 meters
DN1921_SLEEVE-DEPTH : 0.3 meters
DN1921
DN1921 HISTORY   - Date   Condition   Report By
DN1921 HISTORY   - 19940404 MONUMENTED   ILDT
DN1921 HISTORY   - 20130815 GOOD   ILDT
DN1921 HISTORY   - 20140326 GOOD   PATRIC
DN1921
DN1921   STATION DESCRIPTION
DN1921
DN1921'DESCRIBED BY ILLINOIS DEPARTMENT OF TRANSPORTATION 1994
DN1921'THE STATION IS LOCATED AT THE EAST QUADRANT OF THE INTERSECTION OF US
DN1921'34 AND IL 167. 81.5 FEET SOUTHEAST OF THE CENTERLINE OF US 34. 89
DN1921'FEET NORTHEAST OF THE CENTERLINE OF IL 167. 1 FOOT NORTH OF A WITNESS
DN1921'POST AND FLUSH WITH THE SURFACE OF THE GROUND. NOTE ACCESS TO THE
DN1921'MONUMENT IS THROUGH A 6 INCH ACCESS COVER.
DN1921
DN1921   STATION RECOVERY (2013)
DN1921
DN1921'RECOVERY NOTE BY ILLINOIS DEPARTMENT OF TRANSPORTATION 2013 (MW)
DN1921'RECOVERED IN GOOD CONDITION.
DN1921
DN1921   STATION RECOVERY (2014)
DN1921
DN1921'RECOVERY NOTE BY PATRICK ENGINEERING INCORPORATED 2014 (SAL)
DN1921'RECOVERED AS DESCRIBED.

*** retrieval complete.
Elapsed Time = 00:00:04

DATASHEETS Data Sheet Retrieval
The NGS Data Sheet

See file dsdata.pdf for more information about the datasheet.
PROGRAM = datasheet95, VERSION = 8.12.5.14
Starting Datasheet Retrieval...
1 National Geodetic Survey, Retrieval Date = APRIL 21, 2022
DN1912 ***
DN1912 DESIGNATION - ILDOT D4 5510
DN1912 PID - DN1912
DN1912 STATE/COUNTY- IL/FULTON
DN1912 COUNTRY - US
DN1912 USGS QUAD - IPAVA (2018)
DN1912
DN1912 *CURRENT SURVEY CONTROL
DN1912 _____
DN1912* NAD 83(2011) POSITION- 40 21 05.26669(N) 090 18 55.20395(W) ADJUSTED
DN1912* NAD 83(2011) ELLIP HT- 168.429 (meters) (06/27/12) ADJUSTED
DN1912* NAD 83(2011) EPOCH - 2010.00
DN1912* NAVD 88 ORTHO HEIGHT - 201.531 (meters) 661.19 (feet) ADJUSTED
DN1912 _____
DN1912 GEOID HEIGHT - -33.099 (meters) GEOID18
DN1912 NAD 83(2011) X - -26,789.631 (meters) COMP
DN1912 NAD 83(2011) Y - -4,867,585.434 (meters) COMP
DN1912 NAD 83(2011) Z - 4,107,912.957 (meters) COMP
DN1912 LAPLACE CORR - 0.06 (seconds) DEFLEC18
DN1912 DYNAMIC HEIGHT - 201.432 (meters) 660.86 (feet) COMP
DN1912 MODELED GRAVITY - 980,132.0 (mgal) NAVD 88
DN1912
DN1912 VERT ORDER - SECOND CLASS I
DN1912
DN1912 Network accuracy estimates per FGDC Geospatial Positioning Accuracy
DN1912 Standards:
DN1912 FGDC (95% conf, cm) Standard deviation (cm) CorrNE
DN1912 Horiz Ellip SD_N SD_E SD_h (unitless)
DN1912 ----------
DN1912 NETWORK 0.54 0.80 0.24 0.20 0.41 -0.05903974
DN1912 ----------
DN1912 Click here for local accuracies and other accuracy information.
DN1912
DN1912
DN1912.The horizontal coordinates were established by GPS observations
DN1912.and adjusted by the National Geodetic Survey in June 2012.
DN1912
DN1912.NAD 83(2011) refers to NAD 83 coordinates where the reference frame has
DN1912.been affixed to the stable North American tectonic plate. See
DN1912.NA2011 for more information.
DN1912
DN1912.The horizontal coordinates are valid at the epoch date displayed above
DN1912.which is a decimal equivalence of Year/Month/Day.
DN1912
DN1912.The orthometric height was determined by differential leveling and
DN1912.adjusted by the IL DEPT OF TRANSP

DN1912.in July 2015.
DN1912
DN1912.Significant digits in the geoid height do not necessarily reflect accuracy.
DN1912.GEOID18 height accuracy estimate available here.
DN1912
DN1912.Click photographs - Photos may exist for this station.
DN1912
DN1912.The X, Y, and Z were computed from the position and the ellipsoidal ht.
DN1912
DN1912.The Laplace correction was computed from DEFLEC18 derived deflections.
DN1912
DN1912.The ellipsoidal height was determined by GPS observations
DN1912.and is referenced to NAD 83.
DN1912
DN1912.The dynamic height is computed by dividing the NAVD 88
DN1912.geopotential number by the normal gravity value computed on the
DN1912.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
DN1912.degrees latitude (g = 980.6199 gals.).
DN1912
DN1912.The modeled gravity was interpolated from observed gravity values.
DN1912
DN1912. The following values were computed from the NAD 83(2011) position.
DN1912
DN1912; North East Units Scale Factor Converg.
DN1912;SPC IL W - 409,021.860 687,370.754 MT 0.99994314 -0 05 46.5
DN1912;SPC IL W - 1,341,932.55 2,255,148.88 sFT 0.99994314 -0 05 46.5
DN1912;UTM 15 - 4,470,227.244 727,996.671 MT 1.00023993 +1 44 20.4
DN1912
DN1912! - Elev Factor x Scale Factor = Combined Factor
DN1912!SPC IL W - 0.99997358 x 0.99994314 = 0.99991672
DN1912!UTM 15 - 0.99997358 x 1.00023993 = 1.00021350
DN1912
DN1912_U.S. NATIONAL GRID SPATIAL ADDRESS: 15TYE2799670227(NAD 83)
DN1912
DN1912 SUPERSEDED SURVEY CONTROL
DN1912
DN1912 NAD 83(2007)- 40 21 05.26679(N) 090 18 55.20474(W) AD(2002.00) 1
DN1912 ELLIP H (08/01/11) 168.442 (m) GP(2002.00) 3 1
DN1912 NAVD 88 (08/01/11) 201.5 (m) GEOID09 model used GPS OBS
DN1912
DN1912.Superseded values are not recommended for survey control.
DN1912
DN1912.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.
DN1912.See file dsdata.pdf to determine how the superseded data were derived.
DN1912
DN1912_MARKER: F = FLANGE-ENCASED ROD
DN1912_SETTING: 59 = STAINLESS STEEL ROD IN SLEEVE (10 FT.+)
DN1912_STAMPING: ILDOT D4 5510
DN1912_MARK LOGO: ILDT
DN1912_PROJECTION: FLUSH
DN1912_MAGNETIC: N = NO MAGNETIC MATERIAL
DN1912_STABILITY: A = MOST RELIABLE AND EXPECTED TO HOLD
DN1912+STABILITY: POSITION/ELEVATION WELL
DN1912_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR

DN1912+SATELLITE: SATELLITE OBSERVATIONS - October 01, 2014
DN1912_ROD/PIPE-DEPTH: 6.1 meters
DN1912_SLEEVE-DEPTH : 0.3 meters
DN1912
DN1912 HISTORY   - Date   Condition   Report By
DN1912 HISTORY   - 19940404 MONUMENTED   ILDT
DN1912 HISTORY   - 20141001 GOOD   DJHENK
DN1912
DN1912   STATION DESCRIPTION
DN1912
DN1912'DESCRIBED BY ILLINOIS DEPARTMENT OF TRANSPORTATION 1994
DN1912'THE STATION IS LOCATED ON THE EAST EDGE OF IPAVA. 39 FEET NORTH OF THE
DN1912'CENTERLINE OF US 136. 80.6 FEET SOUTH OF THE SOUTHWEST CORNER OF THE
DN1912'FOUNDATION OF A STEEL QUONSET HUT. 137 FEET WEST OF A NAIL AND WASHER
DN1912'IN A POWER POLE. 29.5 FEET WEST OF A POWER POLE. FLUSH WITH THE
DN1912'SURFACE OF THE GROUND. NOTE ACCESS TO THE MONUMENT IS THROUGH A 6
DN1912'INCH ACCESS COVER.
DN1912
DN1912   STATION RECOVERY (2014)
DN1912
DN1912'RECOVERY NOTE BY DJ HENKEL AND ASSOCIATES LLC 2014 (TSS)
DN1912'RECOVERED AS DESCRIBED.

*** retrieval complete.
Elapsed Time = 00:00:03

DATASHEETS Data Sheet Retrieval
The NGS Data Sheet

See file dsdata.pdf for more information about the datasheet.
PROGRAM = datasheet95, VERSION = 8.12.5.14
Starting Datasheet Retrieval...
1 National Geodetic Survey, Retrieval Date = APRIL 21, 2022
DN1924 **********
DN1924 DESIGNATION - ILDOT D4 6414
DN1924 PID - DN1924
DN1924 STATE/COUNTY- IL/MCDONOUGH
DN1924 COUNTRY - US
DN1924 USGS QUAD - ADAIR (2018)
DN1924
DN1924 *CURRENT SURVEY CONTROL
DN1924 _____
DN1924* NAD 83(2011) POSITION- 40 24 50.13328(N) 090 29 39.42454(W) ADJUSTED
DN1924* NAD 83(2011) ELLIP HT- 163.961 (meters) (06/27/12) ADJUSTED
DN1924* NAD 83(2011) EPOCH - 2010.00
DN1924* NAVD 88 ORTHO HEIGHT - 197.120 (meters) 646.72 (feet) ADJUSTED
DN1924 _____
DN1924 GEOID HEIGHT - -33.158 (meters) GEOID18
DN1924 NAD 83(2011) X - -41,953.460 (meters) COMP
DN1924 NAD 83(2011) Y - -4,862,980.898 (meters) COMP
DN1924 NAD 83(2011) Z - 4,113,193.595 (meters) COMP
DN1924 LAPLACE CORR - 0.44 (seconds) DEFLEC18
DN1924 DYNAMIC HEIGHT - 197.023 (meters) 646.40 (feet) COMP
DN1924 MODELED GRAVITY - 980,129.1 (mgal) NAVD 88
DN1924
DN1924 VERT ORDER - SECOND CLASS I
DN1924
DN1924 Network accuracy estimates per FGDC Geospatial Positioning Accuracy
DN1924 Standards:
DN1924 FGDC (95% conf, cm) Standard deviation (cm) CorrNE
DN1924 Horiz Ellip SD_N SD_E SD_h (unitless)
DN1924 ----------
DN1924 NETWORK 0.52 0.80 0.23 0.19 0.41 -0.15410821
DN1924 ----------
DN1924 Click here for local accuracies and other accuracy information.
DN1924
DN1924
DN1924.The horizontal coordinates were established by GPS observations
DN1924.and adjusted by the National Geodetic Survey in June 2012.
DN1924
DN1924.NAD 83(2011) refers to NAD 83 coordinates where the reference frame has
DN1924.been affixed to the stable North American tectonic plate. See
DN1924.NA2011 for more information.
DN1924
DN1924.The horizontal coordinates are valid at the epoch date displayed above
DN1924.which is a decimal equivalence of Year/Month/Day.
DN1924
DN1924.The orthometric height was determined by differential leveling and
DN1924.adjusted by the IL DEPT OF TRANSP

DN1924.in July 2015.
DN1924
DN1924.Significant digits in the geoid height do not necessarily reflect accuracy.
DN1924.GEOID18 height accuracy estimate available here.
DN1924
DN1924.Click photographs - Photos may exist for this station.
DN1924
DN1924.The X, Y, and Z were computed from the position and the ellipsoidal ht.
DN1924
DN1924.The Laplace correction was computed from DEFLEC18 derived deflections.
DN1924
DN1924.The ellipsoidal height was determined by GPS observations
DN1924.and is referenced to NAD 83.
DN1924
DN1924.The dynamic height is computed by dividing the NAVD 88
DN1924.geopotential number by the normal gravity value computed on the
DN1924.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
DN1924.degrees latitude (g = 980.6199 gals.).
DN1924
DN1924.The modeled gravity was interpolated from observed gravity values.
DN1924
DN1924. The following values were computed from the NAD 83(2011) position.
DN1924
DN1924;   North   East   Units Scale Factor Converg.
DN1924;SPC IL W   -   415,998.391   672,194.709   MT 0.99995069   -0 12 44.6
DN1924;SPC IL W   - 1,364,821.39 2,205,358.81   sFT 0.99995069   -0 12 44.6
DN1924;UTM 15   - 4,476,715.503   712,600.989   MT 1.00015641   +1 37 30.3
DN1924
DN1924!   - Elev Factor x Scale Factor =   Combined Factor
DN1924!SPC IL W   -   0.99997428 x   0.99995069 =   0.99992497
DN1924!UTM 15   -   0.99997428 x   1.00015641 =   1.00013069
DN1924
DN1924_U.S. NATIONAL GRID SPATIAL ADDRESS: 15TYE1260076715(NAD 83)
DN1924
DN1924   SUPERSEDED SURVEY CONTROL
DN1924
DN1924 NAD 83(2007)- 40 24 50.13339(N)   090 29 39.42528(W) AD(2002.00) 1
DN1924 ELLIP H (08/01/11) 163.980 (m)   GP(2002.00) 3 1
DN1924 NAVD 88 (08/01/11) 197.1   (m) GEOID09 model used   GPS OBS
DN1924
DN1924.Superseded values are not recommended for survey control.
DN1924
DN1924.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.
DN1924.See file dsdata.pdf to determine how the superseded data were derived.
DN1924
DN1924_MARKER: F = FLANGE-ENCASED ROD
DN1924_SETTING: 59 = STAINLESS STEEL ROD IN SLEEVE (10 FT.+)
DN1924_STAMPING: ILDOT D4 6414
DN1924_MARK LOGO: ILDT
DN1924_PROJECTION: FLUSH
DN1924_MAGNETIC: N = NO MAGNETIC MATERIAL
DN1924_STABILITY: D = MARK OF QUESTIONABLE OR UNKNOWN STABILITY
DN1924_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
DN1924+SATELLITE: SATELLITE OBSERVATIONS - October 01, 2014

DN1924_ROD/PIPE-DEPTH: 6.1 meters
DN1924_SLEEVE-DEPTH : 0.3 meters
DN1924
DN1924 HISTORY   - Date   Condition   Report By
DN1924 HISTORY   - 19940404 MONUMENTED   ILDT
DN1924 HISTORY   - 20121026 GOOD   GEOMET
DN1924 HISTORY   - 20141001 GOOD   DJHENK
DN1924
DN1924   STATION DESCRIPTION
DN1924
DN1924'DESCRIBED BY ILLINOIS DEPARTMENT OF TRANSPORTATION 1994
DN1924'THE STATION IS LOCATED 0.8 MILES SOUTH OF PRAIRIE CITY. TO REACH THE
DN1924'STATION FROM THE INTERSECTION OF US 136 AND IL 41 PROCEED SOUTH ON US
DN1924'136 FOR 3.0 MILES TO THE STATION ON THE LEFT. 37.5 FEET NORTHEAST OF
DN1924'THE CENTERLINE OF US 136. 53.5 FEET NORTHWEST OF A NAIL AND WASHER IN
DN1924'A WOODEN HIGHWAY SIGN POST. 1 FOOT SOUTH OF A WITNESS POST AND FLUSH
DN1924'WITH THE SURFACE OF THE GROUND. NOTE ACCESS TO THE MONUMENT IS THROUGH
DN1924'A 6 INCH ACCESS COVER.
DN1924
DN1924   STATION RECOVERY (2012)
DN1924
DN1924'RECOVERY NOTE BY GEOMETRICS GPS INCORPORATED 2012 (DAR)
DN1924'RECOVERED IN GOOD CONDITION.
DN1924
DN1924   STATION RECOVERY (2014)
DN1924
DN1924'RECOVERY NOTE BY DJ HENKEL AND ASSOCIATES LLC 2014 (TSS)
DN1924'RECOVERED AS DESCRIBED.

*** retrieval complete.
Elapsed Time = 00:00:04

DATASHEETS Data Sheet Retrieval
The NGS Data Sheet

See file dsdata.pdf for more information about the datasheet.
PROGRAM = datasheet95, VERSION = 8.12.5.14
Starting Datasheet Retrieval...
1 National Geodetic Survey, Retrieval Date = APRIL 21, 2022
DN1942 **********
DN1942 DESIGNATION - ILDOT D4 8366
DN1942 PID - DN1942
DN1942 STATE/COUNTY- IL/MERCER
DN1942 COUNTRY - US
DN1942 USGS QUAD - JOY (2018)
DN1942
DN1942 *CURRENT SURVEY CONTROL
DN1942 _____
DN1942* NAD 83(2011) POSITION- 41 11 11.78093(N) 090 55 56.69906(W) ADJUSTED
DN1942* NAD 83(2011) ELLIP HT- 146.895 (meters) (06/27/12) ADJUSTED
DN1942* NAD 83(2011) EPOCH - 2010.00
DN1942* NAVD 88 ORTHO HEIGHT - 179.948 (meters) 590.38 (feet) ADJUSTED
DN1942 _____
DN1942 GEOID HEIGHT - -33.026 (meters) GEOID18
DN1942 NAD 83(2011) X - -78,225.702 (meters) COMP
DN1942 NAD 83(2011) Y - -4,806,443.660 (meters) COMP
DN1942 NAD 83(2011) Z - 4,178,138.096 (meters) COMP
DN1942 LAPLACE CORR - 1.07 (seconds) DEFLEC18
DN1942 DYNAMIC HEIGHT - 179.873 (meters) 590.13 (feet) COMP
DN1942 MODELED GRAVITY - 980,204.3 (mgal) NAVD 88
DN1942
DN1942 VERT ORDER - SECOND CLASS I
DN1942
DN1942 Network accuracy estimates per FGDC Geospatial Positioning Accuracy
DN1942 Standards:
DN1942 FGDC (95% conf, cm) Standard deviation (cm) CorrNE
DN1942 Horiz Ellip SD_N SD_E SD_h (unitless)
DN1942 ----------
DN1942 NETWORK 0.87 1.16 0.39 0.31 0.59 0.15501246
DN1942 ----------
DN1942 Click here for local accuracies and other accuracy information.
DN1942
DN1942
DN1942.The horizontal coordinates were established by GPS observations
DN1942.and adjusted by the National Geodetic Survey in June 2012.
DN1942
DN1942.NAD 83(2011) refers to NAD 83 coordinates where the reference frame has
DN1942.been affixed to the stable North American tectonic plate. See
DN1942.NA2011 for more information.
DN1942
DN1942.The horizontal coordinates are valid at the epoch date displayed above
DN1942.which is a decimal equivalence of Year/Month/Day.
DN1942
DN1942.The orthometric height was determined by differential leveling and
DN1942.adjusted by the NATIONAL GEODETIC SURVEY

DN1942.in July 2014.
DN1942
DN1942.Significant digits in the geoid height do not necessarily reflect accuracy.
DN1942.GEOID18 height accuracy estimate available here.
DN1942
DN1942.Click photographs - Photos may exist for this station.
DN1942
DN1942.The X, Y, and Z were computed from the position and the ellipsoidal ht.
DN1942
DN1942.The Laplace correction was computed from DEFLEC18 derived deflections.
DN1942
DN1942.The ellipsoidal height was determined by GPS observations
DN1942.and is referenced to NAD 83.
DN1942
DN1942.The dynamic height is computed by dividing the NAVD 88
DN1942.geopotential number by the normal gravity value computed on the
DN1942.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
DN1942.degrees latitude (g = 980.6199 gals.).
DN1942
DN1942.The modeled gravity was interpolated from observed gravity values.
DN1942
DN1942. The following values were computed from the NAD 83(2011) position.
DN1942
DN1942; North East Units Scale Factor Converg.
DN1942;SPC IL W - 502,030.648 635,759.073 MT 0.99999195 -0 30 15.4
DN1942;SPC IL W - 1,647,078.88 2,085,819.56 sFT 0.99999195 -0 30 15.4
DN1942;UTM 15 - 4,561,533.173 673,400.669 MT 0.99997006 +1 21 42.7
DN1942
DN1942! - Elev Factor x Scale Factor = Combined Factor
DN1942!SPC IL W - 0.99997696 x 0.99999195 = 0.99996891
DN1942!UTM 15 - 0.99997696 x 0.99997006 = 0.99994702
DN1942
DN1942_U.S. NATIONAL GRID SPATIAL ADDRESS: 15TXF7340061533(NAD 83)
DN1942
DN1942 SUPERSEDED SURVEY CONTROL
DN1942
DN1942 NAD 83(2007)- 41 11 11.78077(N) 090 55 56.69971(W) AD(2002.00) 1
DN1942 ELLIP H (08/01/11) 146.950 (m) GP(2002.00) 3 1
DN1942 NAVD 88 (08/01/11) 179.9 (m) GEOID09 model used GPS OBS
DN1942
DN1942.Superseded values are not recommended for survey control.
DN1942
DN1942.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.
DN1942.See file dsdata.pdf to determine how the superseded data were derived.
DN1942
DN1942_MARKER: F = FLANGE-ENCASED ROD
DN1942_SETTING: 59 = STAINLESS STEEL ROD IN SLEEVE (10 FT.+)
DN1942_STAMPING: ILDOT D4 8366
DN1942_MARK LOGO: ILDT
DN1942_PROJECTION: FLUSH
DN1942_MAGNETIC: N = NO MAGNETIC MATERIAL
DN1942_STABILITY: D = MARK OF QUESTIONABLE OR UNKNOWN STABILITY
DN1942_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
DN1942+SATELLITE: SATELLITE OBSERVATIONS - April 17, 2013

DN1942_ROD/PIPE-DEPTH: 6.1 meters
DN1942_SLEEVE-DEPTH : 0.3 meters
DN1942
DN1942 HISTORY   - Date   Condition   Report By
DN1942 HISTORY   - 19940404 MONUMENTED   ILDT
DN1942 HISTORY   - 20130417 GOOD   ILDT
DN1942
DN1942   STATION DESCRIPTION
DN1942
DN1942'DESCRIBED BY ILLINOIS DEPARTMENT OF TRANSPORTATION 1994
DN1942'THE STATION IS LOCATED 2.5 MILES WEST OF JOY. TO REACH THE STATION
DN1942'FROM THE INTERSECTION OF IL 17 AND CR 9 (MERCER CO. 110TH STREET) IN
DN1942'JOY PROCEED WEST ON IL 17 FOR 2.5 MILES TO THE STATION ON THE LEFT.
DN1942'67.5 FEET SOUTHEAST OF THE CENTERLINE OF IL 17 IN A CURVE TO THE
DN1942'RIGHT. 1 FOOT NORTHWEST OF A WITNESS POST AND FLUSH WITH THE SURFACE
DN1942'OF THE GROUND. NOTE ACCESS TO THE MONUMENT IS THROUGH A 6 INCH ACCESS
DN1942'COVER.
DN1942
DN1942   STATION RECOVERY (2013)
DN1942
DN1942'RECOVERY NOTE BY ILLINOIS DEPARTMENT OF TRANSPORTATION 2013 (JBR)
DN1942'RECOVERED AS DESCRIBED.

*** retrieval complete.
Elapsed Time = 00:00:04

DATASHEETS Data Sheet Retrieval
The NGS Data Sheet

See file dsdata.pdf for more information about the datasheet.
PROGRAM = datasheet95, VERSION = 8.12.5.14
Starting Datasheet Retrieval...
1 National Geodetic Survey, Retrieval Date = APRIL 21, 2022
DN1946 ***
DN1946 DESIGNATION - ILDOT D4 8734
DN1946 PID - DN1946
DN1946 STATE/COUNTY- IL/HENDERSON
DN1946 COUNTRY - US
DN1946 USGS QUAD - STRONGHURST (2018)
DN1946
DN1946 *CURRENT SURVEY CONTROL
DN1946 _____
DN1946* NAD 83(2011) POSITION- 40 40 52.71988(N) 090 58 58.18608(W) ADJUSTED
DN1946* NAD 83(2011) ELLIP HT- 183.491 (meters) (06/27/12) ADJUSTED
DN1946* NAD 83(2011) EPOCH - 2010.00
DN1946* NAVD 88 ORTHO HEIGHT - 216.798 (meters) 711.28 (feet) ADJUSTED
DN1946 _____
DN1946 GEOID HEIGHT - -33.297 (meters) GEOID18
DN1946 NAD 83(2011) X - -83,085.854 (meters) COMP
DN1946 NAD 83(2011) Y - -4,843,161.504 (meters) COMP
DN1946 NAD 83(2011) Z - 4,135,768.699 (meters) COMP
DN1946 LAPLACE CORR - 0.82 (seconds) DEFLEC18
DN1946 DYNAMIC HEIGHT - 216.694 (meters) 710.94 (feet) COMP
DN1946 MODELED GRAVITY - 980,143.0 (mgal) NAVD 88
DN1946
DN1946 VERT ORDER - SECOND CLASS I
DN1946
DN1946 Network accuracy estimates per FGDC Geospatial Positioning Accuracy
DN1946 Standards:
DN1946 FGDC (95% conf, cm) Standard deviation (cm) CorrNE
DN1946 Horiz Ellip SD_N SD_E SD_h (unitless)
DN1946 ----------
DN1946 NETWORK 0.58 0.86 0.24 0.23 0.44 -0.12510312
DN1946 ----------
DN1946 Click here for local accuracies and other accuracy information.
DN1946
DN1946
DN1946.The horizontal coordinates were established by GPS observations
DN1946.and adjusted by the National Geodetic Survey in June 2012.
DN1946
DN1946.NAD 83(2011) refers to NAD 83 coordinates where the reference frame has
DN1946.been affixed to the stable North American tectonic plate. See
DN1946.NA2011 for more information.
DN1946
DN1946.The horizontal coordinates are valid at the epoch date displayed above
DN1946.which is a decimal equivalence of Year/Month/Day.
DN1946
DN1946.The orthometric height was determined by differential leveling and
DN1946.adjusted by the NATIONAL GEODETIC SURVEY

DN1946.in July 2014.
DN1946
DN1946.Significant digits in the geoid height do not necessarily reflect accuracy.
DN1946.GEOID18 height accuracy estimate available here.
DN1946
DN1946.Click photographs - Photos may exist for this station.
DN1946
DN1946.The X, Y, and Z were computed from the position and the ellipsoidal ht.
DN1946
DN1946.The Laplace correction was computed from DEFLEC18 derived deflections.
DN1946
DN1946.The ellipsoidal height was determined by GPS observations
DN1946.and is referenced to NAD 83.
DN1946
DN1946.The dynamic height is computed by dividing the NAVD 88
DN1946.geopotential number by the normal gravity value computed on the
DN1946.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
DN1946.degrees latitude (g = 980.6199 gals.).
DN1946
DN1946.The modeled gravity was interpolated from observed gravity values.
DN1946
DN1946. The following values were computed from the NAD 83(2011) position.
DN1946
DN1946; North East Units Scale Factor Converg.
DN1946;SPC IL W - 445,957.271 631,006.015 MT 0.99999975 -0 31 55.3
DN1946;SPC IL W - 1,463,111.48 2,070,225.57 sFT 0.99999975 -0 31 55.3
DN1946;UTM 15 - 4,505,337.031 670,466.978 MT 0.99995769 +1 18 54.8
DN1946
DN1946! - Elev Factor x Scale Factor = Combined Factor
DN1946!SPC IL W - 0.99997122 x 0.99999975 = 0.99997097
DN1946!UTM 15 - 0.99997122 x 0.99995769 = 0.99992891
DN1946
DN1946_U.S. NATIONAL GRID SPATIAL ADDRESS: 15TXF7046605337(NAD 83)
DN1946
DN1946 SUPERSEDED SURVEY CONTROL
DN1946
DN1946 NAD 83(2007)- 40 40 52.71987(N) 090 58 58.18676(W) AD(2002.00) 1
DN1946 ELLIP H (08/01/11) 183.520 (m) GP(2002.00) 3 1
DN1946 NAVD 88 (08/01/11) 216.7 (m) GEOID09 model used GPS OBS
DN1946
DN1946.Superseded values are not recommended for survey control.
DN1946
DN1946.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.
DN1946.See file dsdata.pdf to determine how the superseded data were derived.
DN1946
DN1946_MARKER: F = FLANGE-ENCASED ROD
DN1946_SETTING: 59 = STAINLESS STEEL ROD IN SLEEVE (10 FT.+)
DN1946_STAMPING: 8734
DN1946_MARK LOGO: ILDT
DN1946_PROJECTION: RECESSED 10 CENTIMETERS
DN1946_MAGNETIC: N = NO MAGNETIC MATERIAL
DN1946_STABILITY: A = MOST RELIABLE AND EXPECTED TO HOLD
DN1946+STABILITY: POSITION/ELEVATION WELL
DN1946_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR

DN1946+SATELLITE: SATELLITE OBSERVATIONS - April 11, 2013
DN1946_ROD/PIPE-DEPTH: 6.1 meters
DN1946_SLEEVE-DEPTH : 0.3 meters
DN1946
DN1946 HISTORY   - Date   Condition   Report By
DN1946 HISTORY   - 19940404 MONUMENTED   ILDT
DN1946 HISTORY   - 20120720 GOOD   ILSGS
DN1946 HISTORY   - 20130411 GOOD   AMESC
DN1946
DN1946   STATION DESCRIPTION
DN1946
DN1946'DESCRIBED BY ILLINOIS DEPARTMENT OF TRANSPORTATION 1994
DN1946'THE STATION IS LOCATED 2.3 MILES WEST OF BIGGSVILLE. TO REACH THE
DN1946'STATION FROM THE INTERSECTION OF US 34 AND IL 94 PROCEED WEST ON IL 94
DN1946'FOR 0.2 MILES TO THE STATION ON THE LEFT. . 37.5 FEET NORTH OF THE
DN1946'CENTERLINE OF IL 96. 16 FEET SOUTHWEST OF A NAIL AND WASHER IN A
DN1946'FENCEPOST. 17 FEET SOUTHEAST OF A NAIL AND WASHER IN A FENCEPOST. 10
DN1946'FEET SOUTH OF AN EAST-WEST FENCELINE. 1 FOOT NORTH OF A WITNESS POST
DN1946'AND FLUSH WITH THE SURFACE OF THE GROUND. NOTE ACCESS TO THE MONUMENT
DN1946'IS THROUGH A 6 INCH ACCESS COVER.
DN1946
DN1946   STATION RECOVERY (2012)
DN1946
DN1946'RECOVERY NOTE BY IL STATE GEOLOGICAL SURVEY 2012 (MEB)
DN1946'DESCRIBED BY THE ILLINOIS HEIGHT MODERNIZATION 2012, THE STATION IS
DN1946'LOCATED 6.8 MI (10.9 KM) NORTHWEST OF LA HARPE.
DN1946'
DN1946'TO REACH THE STATION FROM THE U.S. POST OFFICE IN LA HARPE, PROCEED
DN1946'WEST 0.75 MI (1.2 KM) ON IL 9 TO THE JUNCTION OF IL 94 PROCEED NORTH
DN1946'(N IL 94) 6.77 MI (10.9 KM) TO THE JUNCTION OF IL 96 (S IL 96) HEAD
DN1946'WEST (S IL 96) 500 FT (152.4 M) TO STATION ON THE RIGHT. IT IS 33.8
DN1946'FT (10.3 M) NORTH OF THE CENTERLINE OF IL 96, 15.8 FT (4.8 M) WEST OF
DN1946'THE CENTERLINE OF A FIELD ENTRANCE AND 10.7 FT (3.3 M) OF THE WEST
DN1946'GATE POST.
DN1946
DN1946   STATION RECOVERY (2013)
DN1946
DN1946'RECOVERY NOTE BY AMERICAN SURVEYING AND ENGINEERING PC 2013 (PFS)
DN1946'RECOVERED AS DESCRIBED.

*** retrieval complete.
Elapsed Time = 00:00:04

DATASHEETS Data Sheet Retrieval
The NGS Data Sheet

See file dsdata.pdf for more information about the datasheet.
PROGRAM = datasheet95, VERSION = 8.12.5.14
Starting Datasheet Retrieval...
1 National Geodetic Survey, Retrieval Date = APRIL 21, 2022
LC0855 ***
LC0855 DESIGNATION - J 229
LC0855 PID - LC0855
LC0855 STATE/COUNTY- IL/WOODFORD
LC0855 COUNTRY - US
LC0855 USGS QUAD - BENSON (2018)
LC0855
LC0855 *CURRENT SURVEY CONTROL
LC0855 _____
LC0855* NAD 83(2011) POSITION- 40 48 35.18162(N) 089 01 25.73111(W) ADJUSTED
LC0855* NAD 83(2011) ELLIP HT- 181.183 (meters) (06/27/12) ADJUSTED
LC0855* NAD 83(2011) EPOCH - 2010.00
LC0855* NAVD 88 ORTHO HEIGHT - 213.550 (meters) 700.62 (feet) ADJUSTED
LC0855 _____
LC0855 GEOID HEIGHT - -32.369 (meters) GEOID18
LC0855 NAD 83(2011) X - 82,365.604 (meters) COMP
LC0855 NAD 83(2011) Y - -4,833,859.321 (meters) COMP
LC0855 NAD 83(2011) Z - 4,146,575.291 (meters) COMP
LC0855 LAPLACE CORR - 1.23 (seconds) DEFLEC18
LC0855 DYNAMIC HEIGHT - 213.456 (meters) 700.31 (feet) COMP
LC0855 MODELED GRAVITY - 980,177.2 (mgal) NAVD 88
LC0855
LC0855 VERT ORDER - FIRST CLASS I
LC0855
LC0855 Network accuracy estimates per FGDC Geospatial Positioning Accuracy
LC0855 Standards:
LC0855 FGDC (95% conf, cm) Standard deviation (cm) CorrNE
LC0855 Horiz Ellip SD_N SD_E SD_h (unitless)
LC0855 ----------
LC0855 NETWORK 1.30 1.78 0.59 0.46 0.91 0.07652786
LC0855 ----------
LC0855 Click here for local accuracies and other accuracy information.
LC0855
LC0855
LC0855.The horizontal coordinates were established by GPS observations
LC0855.and adjusted by the National Geodetic Survey in June 2012.
LC0855
LC0855.NAD 83(2011) refers to NAD 83 coordinates where the reference frame has
LC0855.been affixed to the stable North American tectonic plate. See
LC0855.NA2011 for more information.
LC0855
LC0855.The horizontal coordinates are valid at the epoch date displayed above
LC0855.which is a decimal equivalence of Year/Month/Day.
LC0855
LC0855.The orthometric height was determined by differential leveling and
LC0855.adjusted by the NATIONAL GEODETIC SURVEY

LC0855.in June 1991.
LC0855
LC0855.Significant digits in the geoid height do not necessarily reflect accuracy.
LC0855.GEOID18 height accuracy estimate available here.
LC0855
LC0855.Click photographs - Photos may exist for this station.
LC0855
LC0855.The X, Y, and Z were computed from the position and the ellipsoidal ht.
LC0855
LC0855.The Laplace correction was computed from DEFLEC18 derived deflections.
LC0855
LC0855.The ellipsoidal height was determined by GPS observations
LC0855.and is referenced to NAD 83.
LC0855
LC0855.The dynamic height is computed by dividing the NAVD 88
LC0855.geopotential number by the normal gravity value computed on the
LC0855.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
LC0855.degrees latitude (g = 980.6199 gals.).
LC0855
LC0855.The modeled gravity was interpolated from observed gravity values.
LC0855
LC0855. The following values were computed from the NAD 83(2011) position.
LC0855
LC0855;   North   East   Units Scale Factor Converg.
LC0855;SPC IL W   -   460,530.178   796,425.295   MT 1.00005558   +0 44 49.1
LC0855;SPC IL W   - 1,510,922.76 2,612,938.66   sFT 1.00005558   +0 44 49.1
LC0855;UTM 16   - 4,519,611.101   329,300.470   MT 0.99995865   -1 19 22.7
LC0855
LC0855!   - Elev Factor x Scale Factor =   Combined Factor
LC0855!SPC IL W   -   0.99997158 x   1.00005558 =   1.00002716
LC0855!UTM 16   -   0.99997158 x   0.99995865 =   0.99993023
LC0855
LC0855_U.S. NATIONAL GRID SPATIAL ADDRESS: 16TCL2930019611(NAD 83)
LC0855
LC0855   SUPERSEDED SURVEY CONTROL
LC0855
LC0855 NAD 83(2007)- 40 48 35.18147(N)   089 01 25.73204(W) AD(2002.00) 0
LC0855 ELLIP H (02/10/07) 181.209 (m)   GP(2002.00)
LC0855 ELLIP H (02/03/05) 181.212 (m)   GP(   ) 4 2
LC0855 NAD 83(1997)- 40 48 35.18141(N)   089 01 25.73184(W) AD(   ) 1
LC0855 ELLIP H (03/04/03) 181.217 (m)   GP(   ) 4 2
LC0855 NAVD 88   213.55   (m)   700.6   (f) LEVELING   3
LC0855 NGVD 29 (??/??/92) 213.605 (m)   700.80   (f) ADJ UNCH   1 1
LC0855
LC0855.Superseded values are not recommended for survey control.
LC0855
LC0855.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.
LC0855.See file dsdata.pdf to determine how the superseded data were derived.
LC0855
LC0855_MARKER: DB = BENCH MARK DISK
LC0855_SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT
LC0855_STAMPING: J 229 1960
LC0855_MARK LOGO: CGS
LC0855_PROJECTION: PROJECTING 10 CENTIMETERS

LC0855_MAGNETIC: N = NO MAGNETIC MATERIAL
LC0855_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO
LC0855+STABILITY: SURFACE MOTION
LC0855_SATELLITE: THE SITE LOCATION WAS REPORTED AS NOT SUITABLE FOR
LC0855+SATELLITE: SATELLITE OBSERVATIONS - September 02, 2020
LC0855
LC0855 HISTORY   - Date   Condition   Report By
LC0855 HISTORY   - 1960   MONUMENTED   CGS
LC0855 HISTORY   - 1969   GOOD   CGS
LC0855 HISTORY   - 19981014 GOOD   USPSQD
LC0855 HISTORY   - 200205 GOOD   ASCPC
LC0855 HISTORY   - 20200902 GOOD   ILDT
LC0855
LC0855   STATION DESCRIPTION
LC0855
LC0855'DESCRIBED BY COAST AND GEODETIC SURVEY 1969
LC0855'5 MI N FROM EL PASO.
LC0855'ABOUT 4.95 MILES NORTH ALONG THE ILLINOIS CENTRAL RAILROAD FROM
LC0855'THE STATION AT EL PASO, OR ABOUT 5.95 MILES SOUTH ALONG THE
LC0855'ILLINOIS CENTRAL RAILROAD FROM THE STATION AT MINONK, 0.25 MILE
LC0855'SOUTH OF MILEPOST 819, AT THE CROSSING OF THE RAILROAD AND A
LC0855'GRAVELED ROAD, 91 1/2 FEET WEST OF THE WEST RAIL, 31 FEET NORTH
LC0855'OF THE CENTER LINE OF THE ROAD, 53 FEET WEST OF A TELEPHONE POLE,
LC0855'10 FEET NORTH OF A POWER POLE, 9 FEET NORTH OF A CORNER FENCE POST,
LC0855'1 FOOT EAST OF A FENCE, ABOUT 2 FEET BELOW THE LEVEL OF THE TRACK,
LC0855'AND SET IN THE TOP OF A CONCRETE POST WHICH PROJECTS 2 INCHES ABOVE
LC0855'THE SURFACE OF THE GROUND. SEC 8, T27N, R2E
LC0855
LC0855   STATION RECOVERY (1998)
LC0855
LC0855'RECOVERY NOTE BY US POWER SQUADRON 1998
LC0855'RECOVERED IN GOOD CONDITION.
LC0855
LC0855   STATION RECOVERY (2002)
LC0855
LC0855'RECOVERY NOTE BY AMERICAN SURVEYING CONSULTANTS PC 2002
LC0855'RECOVERED AS DESCRIBED
LC0855
LC0855   STATION RECOVERY (2020)
LC0855
LC0855'RECOVERY NOTE BY ILLINOIS DEPARTMENT OF TRANSPORTATION 2020 (DL)
LC0855'THE MARK IS 9 FT (2.7 M) SOUTH-SOUTHEAST OF A 12 INCH (30 CM) OAK TREE
LC0855'THAT HANGS OVER THE MARK.

*** retrieval complete.
Elapsed Time = 00:00:03

DATASHEETS Data Sheet Retrieval
The NGS Data Sheet

See file dsdata.pdf for more information about the datasheet.
PROGRAM = datasheet95, VERSION = 8.12.5.14
Starting Datasheet Retrieval...
1 National Geodetic Survey, Retrieval Date = APRIL 21, 2022
LC1685 **********
LC1685 DESIGNATION - J 297
LC1685 PID - LC1685
LC1685 STATE/COUNTY- IL/MCLEAN
LC1685 COUNTRY - US
LC1685 USGS QUAD - HOLDER (2018)
LC1685
LC1685 *CURRENT SURVEY CONTROL
LC1685 _____
LC1685* NAD 83(2011) POSITION- 40 22 30.41368(N) 088 49 44.70445(W) NO CHECK
LC1685* NAD 83(2011) ELLIP HT- 212.671 (meters) (06/27/12) NO CHECK
LC1685* NAD 83(2011) EPOCH - 2010.00
LC1685* NAVD 88 ORTHO HEIGHT - 244.623 (meters) 802.57 (feet) ADJUSTED
LC1685 _____
LC1685 GEOID HEIGHT - -31.959 (meters) GEOID18
LC1685 NAD 83(2011) X - 99,436.092 (meters) COMP
LC1685 NAD 83(2011) Y - -4,864,975.816 (meters) COMP
LC1685 NAD 83(2011) Z - 4,109,942.826 (meters) COMP
LC1685 LAPLACE CORR - 1.45 (seconds) DEFLEC18
LC1685 DYNAMIC HEIGHT - 244.505 (meters) 802.18 (feet) COMP
LC1685 MODELED GRAVITY - 980,136.5 (mgal) NAVD 88
LC1685
LC1685 VERT ORDER - FIRST CLASS II
LC1685
LC1685 Network accuracy estimates per FGDC Geospatial Positioning Accuracy
LC1685 Standards:
LC1685 FGDC (95% conf, cm) Standard deviation (cm) CorrNE
LC1685 Horiz Ellip SD_N SD_E SD_h (unitless)
LC1685 ----------
LC1685 NETWORK 1.12 2.63 0.48 0.43 1.34 0.04372742
LC1685 ----------
LC1685 Click here for local accuracies and other accuracy information.
LC1685
LC1685
LC1685.The horizontal coordinates were established by GPS observations
LC1685.and adjusted by the National Geodetic Survey in June 2012.
LC1685
LC1685.NAD 83(2011) refers to NAD 83 coordinates where the reference frame has
LC1685.been affixed to the stable North American tectonic plate. See
LC1685.NA2011 for more information.
LC1685
LC1685.The horizontal coordinates are valid at the epoch date displayed above
LC1685.which is a decimal equivalence of Year/Month/Day.
LC1685
LC1685.No horizontal observational check was made to the station.
LC1685.

LC1685.The orthometric height was determined by differential leveling and
LC1685.adjusted by the NATIONAL GEODETIC SURVEY
LC1685.in June 1991.
LC1685
LC1685.Significant digits in the geoid height do not necessarily reflect accuracy.
LC1685.GEOID18 height accuracy estimate available here.
LC1685
LC1685.Click photographs - Photos may exist for this station.
LC1685
LC1685.The X, Y, and Z were computed from the position and the ellipsoidal ht.
LC1685
LC1685.The Laplace correction was computed from DEFLEC18 derived deflections.
LC1685
LC1685.The ellipsoidal height was determined by GPS observations
LC1685.and is referenced to NAD 83.
LC1685
LC1685.The dynamic height is computed by dividing the NAVD 88
LC1685.geopotential number by the normal gravity value computed on the
LC1685.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
LC1685.degrees latitude (g = 980.6199 gals.).
LC1685
LC1685.The modeled gravity was interpolated from observed gravity values.
LC1685
LC1685. The following values were computed from the NAD 83(2011) position.
LC1685
LC1685; North East Units Scale Factor Converg.
LC1685;SPC IL E - 411,769.359 257,899.416 MT 0.99999681 -0 19 16.1
LC1685;SPC IL E - 1,350,946.64 846,125.00 sFT 0.99999681 -0 19 16.1
LC1685;UTM 16 - 4,470,998.494 344,723.284 MT 0.99989680 -1 11 06.4
LC1685
LC1685! - Elev Factor x Scale Factor = Combined Factor
LC1685!SPC IL E - 0.99996664 x 0.99999681 = 0.99996345
LC1685!UTM 16 - 0.99996664 x 0.99989680 = 0.99986344
LC1685
LC1685_U.S. NATIONAL GRID SPATIAL ADDRESS: 16TCK4472370998(NAD 83)
LC1685
LC1685 SUPERSEDED SURVEY CONTROL
LC1685
LC1685 NAD 83(2007)- 40 22 30.41361(N) 088 49 44.70530(W) AD(2002.00) 0
LC1685 ELLIP H (02/10/07) 212.690 (m) GP(2002.00)
LC1685 ELLIP H (09/22/04) 212.700 (m) GP( ) 4 1
LC1685 NAD 83(1997)- 40 22 30.41367(N) 088 49 44.70499(W) AD( ) 1
LC1685 ELLIP H (11/27/02) 212.688 (m) GP( ) 4 1
LC1685 NAD 83(1997)- 40 22 30.41356(N) 088 49 44.70507(W) AD( ) 1
LC1685 ELLIP H (03/18/02) 212.692 (m) GP( ) 4 1
LC1685 NAVD 88 244.62 (m) 802.6 (f) LEVELING 3
LC1685
LC1685.Superseded values are not recommended for survey control.
LC1685
LC1685.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.
LC1685.See file dsdata.pdf to determine how the superseded data were derived.
LC1685
LC1685_MARKER: F = FLANGE-ENCASED ROD
LC1685_SETTING: 49 = STAINLESS STEEL ROD W/O SLEEVE (10 FT.+)

LC1685_STAMPING: J 297 1986
LC1685_MARK LOGO: NGS
LC1685_PROJECTION: RECESSED 5 CENTIMETERS
LC1685_MAGNETIC: I = MARKER IS A STEEL ROD
LC1685_STABILITY: B = PROBABLY HOLD POSITION/ELEVATION WELL
LC1685_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
LC1685+SATELLITE: SATELLITE OBSERVATIONS - October 01, 2014
LC1685_ROD/PIPE-DEPTH: 12.2 meters
LC1685
LC1685 HISTORY - Date Condition Report By
LC1685 HISTORY - 1986 MONUMENTED NGS
LC1685 HISTORY - 20010501 GOOD WOOLPT
LC1685 HISTORY - 20141001 GOOD DJHENK
LC1685
LC1685 STATION DESCRIPTION
LC1685
LC1685'DESCRIBED BY NATIONAL GEODETIC SURVEY 1986
LC1685'15.4 KM (9.55 MI) SE FROM BLOOMINGTON.
LC1685'15.4 KM (9.55 MI) SOUTHEASTERLY ALONG U.S. HIGHWAY 150 FROM ITS
LC1685'JUNCTION WITH INTERSTATE HIGHWAY 55 BUSINESS LOOP IN BLOOMINGTON, 97.0
LC1685'M (318.2 FT) NORTHWEST OF THE CENTER OF A DRIVEWAY LEADING NORTH TO
LC1685'THE L. LINDSEY RESIDENCE, 9.0 M (29.5 FT) NORTHEAST OF THE CENTERLINE
LC1685'OF THE HIGHWAY, 6.4 M (21.0 FT) EAST OF THE CENTER OF A FIELD
LC1685'ENTRANCE, AND 1.9 M (6.2 FT) SOUTH OF A UTILITY POLE. NOTE--ACCESS TO
LC1685'DATUM POINT IS HAD THROUGH A 5-INCH LOGO CAP.
LC1685'THE MARK IS 0.7 METERS SE FROM A WITNESS POST
LC1685'THE MARK IS 0.6 M BELOW THE HIGHWAY.
LC1685
LC1685 STATION RECOVERY (2001)
LC1685
LC1685'RECOVERY NOTE BY WOOLPERT CONSULTANTS 2001 (ARL)
LC1685'RECOVERED AS DESCRIBED.
LC1685
LC1685 STATION RECOVERY (2014)
LC1685
LC1685'RECOVERY NOTE BY DJ HENKEL AND ASSOCIATES LLC 2014 (TSS)
LC1685'RECOVERED AS DESCRIBED.

*** retrieval complete.
Elapsed Time = 00:00:03

DATASHEETS Data Sheet Retrieval
The NGS Data Sheet

See file dsdata.pdf for more information about the datasheet.
PROGRAM = datasheet95, VERSION = 8.12.5.14
Starting Datasheet Retrieval...
1 National Geodetic Survey, Retrieval Date = APRIL 21, 2022
LC1310 ***
LC1310 DESIGNATION - K 235
LC1310 PID - LC1310
LC1310 STATE/COUNTY- IL/TAZEWELL
LC1310 COUNTRY - US
LC1310 USGS QUAD - PEORIA EAST (2018)
LC1310
LC1310 *CURRENT SURVEY CONTROL
LC1310 _____
LC1310* NAD 83(2011) POSITION- 40 37 45.44355(N) 089 37 06.08741(W) ADJUSTED
LC1310* NAD 83(2011) ELLIP HT- 109.995 (meters) (06/27/12) ADJUSTED
LC1310* NAD 83(2011) EPOCH - 2010.00
LC1310* NAVD 88 ORTHO HEIGHT - 142.941 (meters) 468.97 (feet) ADJUSTED
LC1310 _____
LC1310 GEOID HEIGHT - -32.944 (meters) GEOID18
LC1310 NAD 83(2011) X - 32,289.099 (meters) COMP
LC1310 NAD 83(2011) Y - -4,847,474.556 (meters) COMP
LC1310 NAD 83(2011) Z - 4,131,338.178 (meters) COMP
LC1310 LAPLACE CORR - 2.98 (seconds) DEFLEC18
LC1310 DYNAMIC HEIGHT - 142.873 (meters) 468.74 (feet) COMP
LC1310 MODELED GRAVITY - 980,152.1 (mgal) NAVD 88
LC1310
LC1310 VERT ORDER - FIRST CLASS II
LC1310
LC1310 Network accuracy estimates per FGDC Geospatial Positioning Accuracy
LC1310 Standards:
LC1310 FGDC (95% conf, cm) Standard deviation (cm) CorrNE
LC1310 Horiz Ellip SD_N SD_E SD_h (unitless)
LC1310 ----------
LC1310 NETWORK 0.47 0.76 0.22 0.15 0.39 0.01763099
LC1310 ----------
LC1310 Click here for local accuracies and other accuracy information.
LC1310
LC1310
LC1310.The horizontal coordinates were established by GPS observations
LC1310.and adjusted by the National Geodetic Survey in June 2012.
LC1310
LC1310.NAD 83(2011) refers to NAD 83 coordinates where the reference frame has
LC1310.been affixed to the stable North American tectonic plate. See
LC1310.NA2011 for more information.
LC1310
LC1310.The horizontal coordinates are valid at the epoch date displayed above
LC1310.which is a decimal equivalence of Year/Month/Day.
LC1310
LC1310.The orthometric height was determined by differential leveling and
LC1310.adjusted by the NATIONAL GEODETIC SURVEY

LC1310.in June 1991.
LC1310
LC1310.Significant digits in the geoid height do not necessarily reflect accuracy.
LC1310.GEOID18 height accuracy estimate available here.
LC1310
LC1310.Click photographs - Photos may exist for this station.
LC1310
LC1310.The X, Y, and Z were computed from the position and the ellipsoidal ht.
LC1310
LC1310.The Laplace correction was computed from DEFLEC18 derived deflections.
LC1310
LC1310.The ellipsoidal height was determined by GPS observations
LC1310.and is referenced to NAD 83.
LC1310
LC1310.The dynamic height is computed by dividing the NAVD 88
LC1310.geopotential number by the normal gravity value computed on the
LC1310.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
LC1310.degrees latitude (g = 980.6199 gals.).
LC1310
LC1310.The modeled gravity was interpolated from observed gravity values.
LC1310
LC1310. The following values were computed from the NAD 83(2011) position.
LC1310
LC1310;   North   East   Units Scale Factor Converg.
LC1310;SPC IL W   -   440,005.000   746,386.964   MT 0.99996765   +0 21 25.4
LC1310;SPC IL W   - 1,443,583.07 2,448,771.23   sFT 0.99996765   +0 21 25.4
LC1310;UTM 16   - 4,500,902.168   278,551.094   MT 1.00020366   -1 42 20.4
LC1310
LC1310!   - Elev Factor x Scale Factor =   Combined Factor
LC1310!SPC IL W   -   0.99998275 x   0.99996765 =   0.99995040
LC1310!UTM 16   -   0.99998275 x   1.00020366 =   1.00018640
LC1310
LC1310_U.S. NATIONAL GRID SPATIAL ADDRESS: 16TBL7855100902(NAD 83)
LC1310
LC1310   SUPERSEDED SURVEY CONTROL
LC1310
LC1310 NAD 83(2007)- 40 37 45.44336(N)   089 37 06.08928(W) AD(2002.00) 0
LC1310 ELLIP H (02/10/07) 110.033 (m)   GP(2002.00)
LC1310 ELLIP H (09/22/04) 110.035 (m)   GP(   ) 4 1
LC1310 NAD 83(1997)- 40 37 45.44342(N)   089 37 06.08905(W) AD(   ) 1
LC1310 ELLIP H (11/27/02) 110.031 (m)   GP(   ) 4 1
LC1310 NAD 83(1997)- 40 37 45.44322(N)   089 37 06.08925(W) AD(   ) 1
LC1310 ELLIP H (03/18/02) 110.033 (m)   GP(   ) 4 1
LC1310 NAVD 88   142.94   (m)   469.0   (f) LEVELING   3
LC1310 NGVD 29 (??/??/92) 143.041 (m)   469.29   (f) ADJ UNCH   1 2
LC1310
LC1310.Superseded values are not recommended for survey control.
LC1310
LC1310.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.
LC1310.See file dsdata.pdf to determine how the superseded data were derived.
LC1310
LC1310_MARKER: DB = BENCH MARK DISK
LC1310_SETTING: 32 = SET IN A RETAINING WALL OR CONCRETE LEDGE
LC1310_SP_SET: CULVERT

LC1310_STAMPING: K 235 1960
LC1310_MARK LOGO: CGS
LC1310_MAGNETIC: N = NO MAGNETIC MATERIAL
LC1310_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO
LC1310+STABILITY: SURFACE MOTION
LC1310_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
LC1310+SATELLITE: SATELLITE OBSERVATIONS - February 14, 2017
LC1310
LC1310 HISTORY - Date Condition Report By
LC1310 HISTORY - 1960 MONUMENTED CGS
LC1310 HISTORY - 1975 GOOD LOCENG
LC1310 HISTORY - 20010501 GOOD WOOLPT
LC1310 HISTORY - 20041021 GOOD DAILY
LC1310 HISTORY - 20100501 GOOD ILDT
LC1310 HISTORY - 20111017 GOOD ATKNA
LC1310 HISTORY - 20141010 GOOD ASMINC
LC1310 HISTORY - 20170214 GOOD ASMINC
LC1310 HISTORY - 20170214 GOOD ASMINC
LC1310
LC1310 STATION DESCRIPTION
LC1310
LC1310'DESCRIBED BY COAST AND GEODETIC SURVEY 1960
LC1310'2.4 MI SW FROM CREVE COEUR.
LC1310'ABOUT 1.8 MILES SOUTHWEST ALONG THE PEORIA AND PEKIN UNION RAILWAY
LC1310'FROM THE FREIGHT STATION AT CREVE COEUR, THENCE ABOUT 0.55 MILE
LC1310'SOUTH ALONG WESLEY ROAD, ABOUT 0.6 MILE SOUTH OF GRAIN ELEVATORS,
LC1310'0.2 MILE NORTH OF JUNCTION OF WESLEY ROAD AND STATE HIGHWAY 29,
LC1310'IN THE TOP OF THE WEST CORNER OF A 4 1/2-FOOT CONCRETE SEWER BOX
LC1310'WITH 2-FOOT DIAMETER CAST IRON LID, 25 1/2 FEET WEST OF CENTER LINE
LC1310'OF WESLEY ROAD, 13 1/2 FEET SOUTHWEST OF SOUTH END OF WEST STEEL
LC1310'PIPE BANISTER OF CONCRETE CULVERT WITH PARTITION FOR A CREEK AND
LC1310'ABOUT LEVEL WITH ROAD. NOTE-- MARK CAN BE REACHED FROM PEKIN,
LC1310'TAZEWELL COUNTY, BY GOING ABOUT 3.35 MILES NORTH AND NORTHEAST
LC1310'ALONG STATE HIGHWAY 29 (NORTH 8TH STREET) FROM THE INTERSECTION
LC1310'OF SHERIDAN ROAD IN NORTH PART OF TOWN, THENCE ABOUT 0.2 MILE
LC1310'NORTH ALONG WESLEY ROAD.
LC1310
LC1310 STATION RECOVERY (1975)
LC1310
LC1310'RECOVERY NOTE BY LOCAL ENGINEER (INDIVIDUAL OR FIRM) 1975
LC1310'RECOVERED IN GOOD CONDITION.
LC1310
LC1310 STATION RECOVERY (2001)
LC1310
LC1310'RECOVERY NOTE BY WOOLPERT CONSULTANTS 2001 (ARL)
LC1310'RECOVERED AS DESCRIBED.
LC1310
LC1310 STATION RECOVERY (2004)
LC1310
LC1310'RECOVERY NOTE BY DAILY AND ASSOCIATES, ENGINEERS INC 2004 (DWS)
LC1310'MARK RECOVERED IN GOOD CONDITION, SETUP OVER THE MARK IS FACILITATED
LC1310'BY A LONGER LEGGED TRIPOD DUE TO EROSION AROUND THE END OF THE
LC1310'CONCRETE STRUCTURE WHICH HOLDS THE MARK. TRUCK TRAFFIC ON THE
LC1310'ADJACENT ROADWAYS DOES CREATE CONSIDERABLE DUST AND VIBRATION AROUND

LC1310'THE POINT.
LC1310
LC1310 STATION RECOVERY (2010)
LC1310
LC1310'RECOVERY NOTE BY ILLINOIS DEPARTMENT OF TRANSPORTATION 2010 (CW)
LC1310'RECOVERED AS DESCRIBED
LC1310
LC1310 STATION RECOVERY (2011)
LC1310
LC1310'RECOVERY NOTE BY ATKINS NORTH AMERICA INC 2011 (DWD)
LC1310'RECOVERED IN GOOD CONDITION.
LC1310
LC1310 STATION RECOVERY (2014)
LC1310
LC1310'RECOVERY NOTE BY ADVANCED SURVEYING AND MAPPING 2014 (LEE)
LC1310'RECOVERED IN GOOD CONDITION.
LC1310
LC1310 STATION RECOVERY (2017)
LC1310
LC1310'RECOVERY NOTE BY ADVANCED SURVEYING AND MAPPING 2017 (CSM)
LC1310'RECOVERED IN GOOD CONDITION.
LC1310
LC1310 STATION RECOVERY (2017)
LC1310
LC1310'RECOVERY NOTE BY ADVANCED SURVEYING AND MAPPING 2017 (CSM)
LC1310'RECOVERED IN GOOD CONDITION.

*** retrieval complete.
Elapsed Time = 00:00:04

DATASHEETS Data Sheet Retrieval
The NGS Data Sheet

See file dsdata.pdf for more information about the datasheet.
PROGRAM = datasheet95, VERSION = 8.12.5.14
Starting Datasheet Retrieval...
1 National Geodetic Survey, Retrieval Date = APRIL 21, 2022
LD0107 **********
LD0107 CBN - This is a Cooperative Base Network Control Station.
LD0107 DESIGNATION - KNOXVILLE
LD0107 PID - LD0107
LD0107 STATE/COUNTY- IL/KNOX
LD0107 COUNTRY - US
LD0107 USGS QUAD - GALESBURG EAST (2018)
LD0107
LD0107 *CURRENT SURVEY CONTROL
LD0107 _____
LD0107* NAD 83(2011) POSITION- 40 54 28.88920(N) 090 16 40.34130(W) ADJUSTED
LD0107* NAD 83(2011) ELLIP HT- 202.970 (meters) (06/27/12) ADJUSTED
LD0107* NAD 83(2011) EPOCH - 2010.00
LD0107* NAVD 88 ORTHO HEIGHT - 236.013 (meters) 774.32 (feet) ADJUSTED
LD0107 _____
LD0107 GEOID HEIGHT - -33.041 (meters) GEOID18
LD0107 NAD 83(2011) X - -23,411.982 (meters) COMP
LD0107 NAD 83(2011) Y - -4,827,382.520 (meters) COMP
LD0107 NAD 83(2011) Z - 4,154,842.041 (meters) COMP
LD0107 LAPLACE CORR - 0.10 (seconds) DEFLEC18
LD0107 DYNAMIC HEIGHT - 235.908 (meters) 773.97 (feet) COMP
LD0107 MODELED GRAVITY - 980,171.6 (mgal) NAVD 88
LD0107
LD0107 VERT ORDER - SECOND CLASS 0
LD0107
LD0107 Network accuracy estimates per FGDC Geospatial Positioning Accuracy
LD0107 Standards:
LD0107 FGDC (95% conf, cm) Standard deviation (cm) CorrNE
LD0107 Horiz Ellip SD_N SD_E SD_h (unitless)
LD0107 ----------
LD0107 NETWORK 0.40 0.69 0.18 0.14 0.35 -0.01276451
LD0107 ----------
LD0107 Click here for local accuracies and other accuracy information.
LD0107
LD0107
LD0107.The horizontal coordinates were established by GPS observations
LD0107.and adjusted by the National Geodetic Survey in June 2012.
LD0107
LD0107.NAD 83(2011) refers to NAD 83 coordinates where the reference frame has
LD0107.been affixed to the stable North American tectonic plate. See
LD0107.NA2011 for more information.
LD0107
LD0107.The horizontal coordinates are valid at the epoch date displayed above
LD0107.which is a decimal equivalence of Year/Month/Day.
LD0107
LD0107.The orthometric height was determined by differential leveling and

LD0107.adjusted by the NATIONAL GEODETIC SURVEY
LD0107.in June 1991.
LD0107
LD0107.Significant digits in the geoid height do not necessarily reflect accuracy.
LD0107.GEOID18 height accuracy estimate available here.
LD0107
LD0107.Click photographs - Photos may exist for this station.
LD0107
LD0107.The X, Y, and Z were computed from the position and the ellipsoidal ht.
LD0107
LD0107.The Laplace correction was computed from DEFLEC18 derived deflections.
LD0107
LD0107.The ellipsoidal height was determined by GPS observations
LD0107.and is referenced to NAD 83.
LD0107
LD0107.The dynamic height is computed by dividing the NAVD 88
LD0107.geopotential number by the normal gravity value computed on the
LD0107.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
LD0107.degrees latitude (g = 980.6199 gals.).
LD0107
LD0107.The modeled gravity was interpolated from observed gravity values.
LD0107
LD0107. The following values were computed from the NAD 83(2011) position.
LD0107
LD0107; North East Units Scale Factor Converg.
LD0107;SPC IL W - 470,817.955 690,631.226 MT 0.99994226 -0 04 22.2
LD0107;SPC IL W - 1,544,675.24 2,265,845.95 sFT 0.99994226 -0 04 22.2
LD0107;UTM 15 - 4,532,114.903 729,265.472 MT 1.00024699 +1 47 00.1
LD0107
LD0107! - Elev Factor x Scale Factor = Combined Factor
LD0107!SPC IL W - 0.99996816 x 0.99994226 = 0.99991042
LD0107!UTM 15 - 0.99996816 x 1.00024699 = 1.00021514
LD0107
LD0107: Primary Azimuth Mark Grid Az
LD0107:SPC IL W - KNOXVILLE AZ MK RESET 359 14 25.3
LD0107:UTM 15 - KNOXVILLE AZ MK RESET 357 23 03.0
LD0107
LD0107_U.S. NATIONAL GRID SPATIAL ADDRESS: 15TYF2926532114(NAD 83)
LD0107
LD0107|----------|
LD0107| PID Reference Object Distance Geod. Az |
LD0107| dddmmss.s |
LD0107| LD0699 DAHINDA SINCLAIR PLINE CO STK APPROX.13.1 KM 0790850.5 |
LD0107| CL9686 KNOXVILLE AZ MK 0930847.6 |
LD0107| LD0109 KNOXVILLE RM 1 32.190 METERS 13603 |
LD0107| LD0721 ABINGDON AMER SANITARY CO TK APPROX.13.9 KM 2175149.2 |
LD0107| LD0720 ABINGDON MUNICIPAL TANK APPROX.15.2 KM 2205811.1 |
LD0107| LD0108 KNOXVILLE RM 2 32.357 METERS 22435 |
LD0107| LD0723 GALESBURG CBQRR TIE TREAT STK APPROX. 9.6 KM 2631635.7 |
LD0107| LD0713 KNOXVILLE HIGH SCHOOL CUPOLA 405.851 METERS 2734805.7 |
LD0107| LD0714 GALESBURG CBQ RR POWERHSE STK APPROX. 8.3 KM 2962447.0 |
LD0107| LD0711 GALESBURG CORP CHRISTI CATH CH APPROX. 8.6 KM 2975043.5 |
LD0107| LD0719 GALESBURG WESTERN ICE CO STACK APPROX. 8.2 KM 2991800.7 |
LD0107| LD0106 KNOXVILLE RM 3 40.853 METERS 29936 |

LD0107| LD0717 GALESBURG ILL PWR AND L CO STK APPROX. 9.3 KM 2993949.2 |
LD0107| LD0709 GALESBURG O E JOHNSON DEPT STORE TA APPROX. 8.9 KM 3001007.3 |
LD0107| LD0708 KNOXVILLE ST MARYS SCH CUPOLA APPROX. 0.8 KM 3221737.7 |
LD0107| LD0712 KNOXVILLE MUNICIPAL TANK 307.408 METERS 33053 |
LD0107| LD0105 KNOXVILLE AZ MK RESET 3591003.1 |
LD0107|---|
LD0107
LD0107 SUPERSEDED SURVEY CONTROL
LD0107
LD0107 NAD 83(2007)- 40 54 28.88907(N) 090 16 40.34166(W) AD(2002.00) 0
LD0107 ELLIP H (02/10/07) 202.988 (m) GP(2002.00)
LD0107 ELLIP H (10/15/04) 202.976 (m) GP( ) 4 2
LD0107 NAD 83(1997)- 40 54 28.88883(N) 090 16 40.34130(W) AD( ) B
LD0107 ELLIP H (07/17/98) 203.004 (m) GP( ) 4 1
LD0107 NAD 83(1986)- 40 54 28.89297(N) 090 16 40.35320(W) AD( ) 1
LD0107 NAD 27 - 40 54 28.75500(N) 090 16 39.89500(W) AD( ) 1
LD0107 NAVD 88 236.01 (m) 774.3 (f) LEVELING 3
LD0107 NGVD 29 (??/??/92) 236.071 (m) 774.51 (f) ADJ UNCH 2 0
LD0107 NGVD 29 236.07 (m) 774.5 (f) LEVELING 3
LD0107
LD0107.Superseded values are not recommended for survey control.
LD0107
LD0107.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.
LD0107.See file dsdata.pdf to determine how the superseded data were derived.
LD0107
LD0107_MARKER: DS = TRIANGULATION STATION DISK
LD0107_SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT
LD0107_STAMPING: KNOXVILLE 1935
LD0107_MARK LOGO: CGS
LD0107_PROJECTION: FLUSH
LD0107_MAGNETIC: N = NO MAGNETIC MATERIAL
LD0107_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO
LD0107+STABILITY: SURFACE MOTION
LD0107_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
LD0107+SATELLITE: SATELLITE OBSERVATIONS - May 01, 2010
LD0107
LD0107 HISTORY - Date Condition Report By
LD0107 HISTORY - 1935 MONUMENTED CGS
LD0107 HISTORY - 1939 GOOD CGS
LD0107 HISTORY - 1959 GOOD CGS
LD0107 HISTORY - 1959 GOOD CGS
LD0107 HISTORY - 19970426 GOOD NGS
LD0107 HISTORY - 19971112 GOOD USPSQD
LD0107 HISTORY - 20051101 GOOD ILDT
LD0107 HISTORY - 20100501 GOOD ILDT
LD0107
LD0107 STATION DESCRIPTION
LD0107
LD0107'DESCRIBED BY COAST AND GEODETIC SURVEY 1935 (CAS)
LD0107'THIS STATION IS IN THE EASTERN PART OF KNOXVILLE ABOUT 0.1
LD0107'MILE EAST OF THE BUSINESS DISTRICT, AT THE INTERSECTION OF
LD0107'EAST MAIN AND ORANGE STREETS, ON GRASSY PLOT BETWEEN THE
LD0107'SIDEWALK AND CURB OF EAST MAIN STREET AT NORTHEAST CORNER.
LD0107'71 FEET EAST OF FIRE HYDRANT ON NORTHWEST CORNER OF INTERSECTION.

LD0107'17 FEET NORTH OF EAST MAIN STREET CURB. 21 FEET EAST OF ORANGE
LD0107'STREET CURB. 12 FEET SOUTH OF EAST MAIN STREET SIDEWALK.
LD0107'90 FEET SOUTHWEST OF ENTRANCE TO HOUSE NO. 503 ON EAST MAIN
LD0107'STREET. THE MARK IS FLUSH.
LD0107'
LD0107'SURFACE, UNDERGROUND, REFERENCE AND AZIMUTH MARKS ARE STANDARD
LD0107'BRONZE DISKS SET IN CONCRETE.
LD0107'
LD0107'REFERENCE MARK NO. 1 IS SOUTHEAST OF STATION, 28 FEET SOUTH OF
LD0107'SOUTH CURB ON EAST MAIN STREET, 6 INCHES NORTH OF SIDEWALK.
LD0107'IN FRONT OF HOUSE NO. 504. THE MARK IS FLUSH.
LD0107'
LD0107'REFERENCE MARK NO. 2 IS SOUTHWEST OF STATION 26 FEET SOUTH
LD0107'OF CURB AT T-INTERSECTION OF EAST MAIN AND ORANGE STREETS.
LD0107'52 FEET NORTHEAST OF NORTHEAST CORNER OF HOUSE NO. 408 ON
LD0107'EAST MAIN STREET. 1 FOOT NORTH OF EAST MAIN STREET SIDEWALK
LD0107'AND 4 FEET EAST-SOUTHEAST OF 24-INCH ELM TREE. THE MARK IS
LD0107'FLUSH.
LD0107'
LD0107'THE AZIMUTH MARK IS EAST OF THE STATION AT THE SOUTHEAST CORNER OF
LD0107'THE INTERSECTION OF EAST MAIN AND MORRIS STREETS. 3 FEET FROM
LD0107'CURB LINE. 15 FEET NORTH OF EAST MAIN SIDEWALK. 3 FEET
LD0107'NORTH-NORTHEAST OF UTILITIES POLE. THE MARK IS FLUSH.
LD0107'
LD0107'LIGHTS 100 FEET ABOVE STATIONS ENGLE AND GALESBURG COME INTO
LD0107'VIEW 90 FEET ABOVE THIS STATION.
LD0107'
LD0107'LIGHTS 100 FEET ABOVE STATIONS GEHRING AND VICTORIA COME INTO
LD0107'VIEW 64 FEET ABOVE THIS STATION.
LD0107
LD0107 STATION RECOVERY (1939)
LD0107
LD0107'RECOVERY NOTE BY COAST AND GEODETIC SURVEY 1939 (FBQ)
LD0107'THE STATION MARK, REFERENCE MARKS NO. 1 AND NO. 2 AND THE
LD0107'AZIMUTH MARK WERE RECOVERED IN ACCORDANCE WITH THE ORIGINAL
LD0107'DESCRIPTION AND FOUND TO BE IN GOOD CONDITION. THE PROPERTY
LD0107'OWNER, WHO LIVES IN THE TOWN OF KNOXVILLE, WOULD NOT GIVE
LD0107'PERMISSION TO BUILD A TOWER OVER THE MARK SO THE STATION WAS
LD0107'OCCUPIED ECCENTRICALLY.
LD0107'
LD0107'THE STATION IS IN THE EASTERN PART OF KNOXVILLE, ABOUT 0.1
LD0107'MILE EAST OF THE BUSINESS DISTRICT, AT THE INTERSECTION OF
LD0107'EAST MAIN STREET AND ORANGE STREET, ON A GRASSY PLOT BETWEEN
LD0107'THE SIDEWALK AND THE CURB OF EAST MAIN STREET AT THE NORTHEAST
LD0107'CORNER. 71 FEET EAST OF A FIRE HYDRANT AT THE NORTHWEST CORNER
LD0107'OF THE INTERSECTION, 17 FEET NORTH OF THE NORTH CURB OF EAST
LD0107'MAIN STREET. 21 FEET EAST OF THE EAST CURB OF ORANGE STREET.
LD0107'AND 12 FEET SOUTH OF THE EAST MAIN STREET SIDEWALK. THE MARK
LD0107'IS FLUSH WITH THE SURFACE OF THE GROUND AND
LD0107'IS STAMPED KNOXVILLE 1935.
LD0107'
LD0107'THE AZIMUTH MARK IS APPROXIMATELY 0.2 MILE EAST OF THE STATION
LD0107'AT THE SOUTHEAST CORNER OF THE INTERSECTION OF EAST MAIN AND
LD0107'MORRIS STREETS. 3 FEET EAST OF THE EAST CURB OF MORRIS STREET.

LD0107'15 FEET NORTH OF THE EAST MAIN STREET SIDEWALK. AND 3 FEET
LD0107'NORTH-NORTHEAST OF A LIGHT POLE. THE MARK IS FLUSH
LD0107'WITH THE SURFACE OF THE GROUND AND IS STAMPED KNOXVILLE
LD0107'AZIMUTH 1935.
LD0107'
LD0107'REFERENCE MARK NO. 1 IS 105.64 FEET, 32.197 METERS, SOUTHEAST
LD0107'OF THE STATION. 28 FEET SOUTH OF THE SOUTH CURB OF EAST MAIN
LD0107'STREET. AND 6 INCHES NORTH OF THE SIDEWALK. THE MARK
LD0107'IS FLUSH WITH THE SURFACE OF THE GROUND AND IS STAMPED
LD0107'KNOXVILLE NO 1 1935.
LD0107'
LD0107'REFERENCE MARK NO. 2 IS 32.357 METERS, 106.16 FEET, SOUTHWEST
LD0107'OF THE STATION, 26 FEET SOUTH OF THE CURB AT THE T-INTERSECTION
LD0107'OF EAST MAIN STREET AND ORANGE STREET, 4 FEET EAST-SOUTHEAST
LD0107'OF A 24-INCH ELM TREE, AND 1 FOOT NORTH OF EAST MAIN STREET
LD0107'SIDEWALK. THE MARK IS FLUSH WITH THE SURFACE OF
LD0107'THE GROUND AND IS STAMPED KNOXVILLE NO 2 1935.
LD0107'
LD0107'A 90-FOOT TOWER IS NEEDED TO CLEAR ALL LINES.
LD0107
LD0107 STATION RECOVERY (1959)
LD0107
LD0107'RECOVERY NOTE BY COAST AND GEODETIC SURVEY 1959 (RWE)
LD0107'THE STATION WAS RECOVERED AS DESCRIBED AND ALL MARKS WERE
LD0107'FOUND TO BE IN GOOD CONDITION.
LD0107'
LD0107'THE DISTANCE TO REFERENCE MARK NUMBER 2 WAS NOT MEASURED OR
LD0107'OBSERVED AT THIS TIME BECAUSE OF POWER LINE POLE ON LINE.
LD0107'
LD0107'THE DISTANCE AND DIRECTION TO REFERENCE MARK NUMBER 1 WAS
LD0107'CHECKED AND FOUND TO BE CORRECT.
LD0107'
LD0107'THE AZIMUTH MARK HAS BEEN COVERED BY PAVEMENT, A TEMPORARY
LD0107'POINT WAS HELD AND THE DIRECTION CHECKED.
LD0107'
LD0107'A NEW AZIMUTH MARK WAS ESTABLISHED, IT IS 23.6 FEET SOUTH
LD0107'OF THE SOUTH RAIL OF RAILROAD TRACKS, 18 FEET EAST OF THE
LD0107'APPROXIMATE CENTER OF ROAD, 4.5 FEET EAST OF RAILROAD CROSSING
LD0107'SIGN AND 2 FEET SOUTH OF A WITNESS POST. THE MARK IS A STANDARD
LD0107'AZIMUTH MARK DISK SET IN TOP OF A 12 X 12 INCH CONCRETE POST
LD0107'SET FLUSH AND THE DISK IS STAMPED KNOXVILLE 1935 RESET 1959.
LD0107'
LD0107'TO REACH THE AZIMUTH FROM THE STATION GO NORTH ON ORANGE STREET
LD0107'FOR 0.25 MILE TO AZIMUTH MARK ON THE RIGHT AS DESCRIBED.
LD0107'
LD0107'REFERENCE MARK NO. 3 WAS ESTABLISHED AND OCCUPIED AT THIS TIME.
LD0107'IT IS A STANDARD REFERENCE MARK DISK SET IN THE TOP OF A
LD0107'12 X 12 INCH CONCRETE POST SET FLUSH AND THE DISK IS STAMPED
LD0107'KNOXVILLE NO. 3 1935. IT IS 105 FEET SOUTHEAST OF THE SOUTHEAST
LD0107'CORNER OF THE ILLINOIS P.E.O. HOME, 99 FEET NORTH OF THE
LD0107'APPROXIMATE CENTER OF MAIN STREET, 82 FEET WEST OF ORANGE
LD0107'STREET, 73.5 FEET NORTHWEST OF A FIRE HYDRANT AND 17 FEET
LD0107'SOUTH OF THE APPROXIMATE CENTER OF DRIVEWAY.
LD0107'

LD0107'THE ORIGINAL DESCRIPTION ADEQUATE.
LD0107
LD0107 STATION RECOVERY (1959)
LD0107
LD0107'RECOVERY NOTE BY COAST AND GEODETIC SURVEY 1959
LD0107'AT KNOXVILLE.
LD0107'AT KNOXVILLE, AT THE JUNCTION OF EAST MAIN STREET AND ORANGE STREET,
LD0107'NEAR THE KNOXVILLE P.E.O. HOME, 32 FEET NORTH OF THE CENTER LINE
LD0107'OF EAST MAIN STREET, 37 FEET EAST OF THE CENTER LINE OF ORANGE
LD0107'STREET, 71 FEET EAST AND ACROSS ORANGE STREET FROM A FIRE HYDRANT,
LD0107'12 FEET SOUTH OF THE SOUTH EDGE OF SIDEWALK, 50 FEET NORTHEAST
LD0107'OF THE CENTERLINE OF THE INTERSECTION, ABOUT 1/2 FOOT ABOVE
LD0107'THE LEVEL OF EAST MAIN STREET, SET IN THE TOP OF A CONCRETE POST
LD0107'FLUSH WITH THE GROUND.
LD0107
LD0107 STATION RECOVERY (1997)
LD0107
LD0107'RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1997 (RKB)
LD0107'THE STATION IS LOCATED IN THE EAST PART OF KNOXVILLE ABOUT 0.1 MI (0.2
LD0107'KM) EAST OF THE BUSINESS DISTRICT, ALONG U.S. HIGHWAY 150 WHICH IS
LD0107'MAIN STREET, AT THE T-INTERSECTION OF ORANGE STREET, IN A GRASS STRIP
LD0107'BETWEEN THE NORTH CURB AND SIDEWALK OF EAST MAIN STREET. IT IS 9.8 M
LD0107'(32.2 FT) NORTH OF THE CENTER OF EAST MAIN STREET, 11.3 M (37.1 FT)
LD0107'EAST OF THE CENTER OF ORANGE STREET, 21.6 M (70.9 FT) EAST AND ACROSS
LD0107'ORANGE STREET FROM A FIRE HYDRANT, 3.6 M (11.8 FT) SOUTH OF THE SOUTH
LD0107'EDGE OF THE SIDEWALK, 15.2 M (49.9 FT) NORTHEAST OF THE CENTER OF THE
LD0107'INTERSECTION, AND 27.4 M (89.9 FT) SOUTHWEST OF ENTRANCE TO HOUSE NO.
LD0107'503 EAST MAIN.
LD0107
LD0107 STATION RECOVERY (1997)
LD0107
LD0107'RECOVERY NOTE BY US POWER SQUADRON 1997
LD0107'RECOVERED IN GOOD CONDITION.
LD0107
LD0107 STATION RECOVERY (2005)
LD0107
LD0107'RECOVERY NOTE BY ILLINOIS DEPARTMENT OF TRANSPORTATION 2005
LD0107'RECOVERED AS DESCRIBED
LD0107
LD0107 STATION RECOVERY (2010)
LD0107
LD0107'RECOVERY NOTE BY ILLINOIS DEPARTMENT OF TRANSPORTATION 2010 (CW)
LD0107'RECOVERED AS DESCRIBED

*** retrieval complete.
Elapsed Time = 00:00:16

DATASHEETS Data Sheet Retrieval
The NGS Data Sheet

See file dsdata.pdf for more information about the datasheet.
PROGRAM = datasheet95, VERSION = 8.12.5.14
Starting Datasheet Retrieval...
1 National Geodetic Survey, Retrieval Date = APRIL 21, 2022
DG8120 **********
DG8120 DESIGNATION - MASON 13
DG8120 PID - DG8120
DG8120 STATE/COUNTY- IL/MASON
DG8120 COUNTRY - US
DG8120 USGS QUAD - HAVANA (2018)
DG8120
DG8120 *CURRENT SURVEY CONTROL
DG8120 _____
DG8120* NAD 83(2011) POSITION- 40 17 49.56722(N) 090 02 19.39536(W) ADJUSTED
DG8120* NAD 83(2011) ELLIP HT- 111.370 (meters) (06/27/12) ADJUSTED
DG8120* NAD 83(2011) EPOCH - 2010.00
DG8120* NAVD 88 ORTHO HEIGHT - 144.404 (meters) 473.77 (feet) ADJUSTED
DG8120 _____
DG8120 GEOID HEIGHT - -33.028 (meters) GEOID18
DG8120 NAD 83(2011) X - -3,292.212 (meters) COMP
DG8120 NAD 83(2011) Y - -4,871,520.786 (meters) COMP
DG8120 NAD 83(2011) Z - 4,103,273.901 (meters) COMP
DG8120 LAPLACE CORR - 1.73 (seconds) DEFLEC18
DG8120 DYNAMIC HEIGHT - 144.333 (meters) 473.53 (feet) COMP
DG8120 MODELED GRAVITY - 980,128.0 (mgal) NAVD 88
DG8120
DG8120 VERT ORDER - SECOND CLASS I
DG8120
DG8120 Network accuracy estimates per FGDC Geospatial Positioning Accuracy
DG8120 Standards:
DG8120 FGDC (95% conf, cm) Standard deviation (cm) CorrNE
DG8120 Horiz Ellip SD_N SD_E SD_h (unitless)
DG8120 ----------
DG8120 NETWORK 0.73 1.14 0.34 0.23 0.58 -0.11000650
DG8120 ----------
DG8120 Click here for local accuracies and other accuracy information.
DG8120
DG8120
DG8120.The horizontal coordinates were established by GPS observations
DG8120.and adjusted by the National Geodetic Survey in June 2012.
DG8120
DG8120.NAD 83(2011) refers to NAD 83 coordinates where the reference frame has
DG8120.been affixed to the stable North American tectonic plate. See
DG8120.NA2011 for more information.
DG8120
DG8120.The horizontal coordinates are valid at the epoch date displayed above
DG8120.which is a decimal equivalence of Year/Month/Day.
DG8120
DG8120.The orthometric height was determined by differential leveling and
DG8120.adjusted by the IL DEPT OF TRANSP

DG8120.in July 2015.
DG8120
DG8120.Significant digits in the geoid height do not necessarily reflect accuracy.
DG8120.GEOID18 height accuracy estimate available here.
DG8120
DG8120.Click photographs - Photos may exist for this station.
DG8120
DG8120.The X, Y, and Z were computed from the position and the ellipsoidal ht.
DG8120
DG8120.The Laplace correction was computed from DEFLEC18 derived deflections.
DG8120
DG8120.The ellipsoidal height was determined by GPS observations
DG8120.and is referenced to NAD 83.
DG8120
DG8120.The dynamic height is computed by dividing the NAVD 88
DG8120.geopotential number by the normal gravity value computed on the
DG8120.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
DG8120.degrees latitude (g = 980.6199 gals.).
DG8120
DG8120.The modeled gravity was interpolated from observed gravity values.
DG8120
DG8120. The following values were computed from the NAD 83(2011) position.
DG8120
DG8120; North East Units Scale Factor Converg.
DG8120;SPC IL W - 402,983.173 710,877.642 MT 0.99994263 +0 04 57.9
DG8120;SPC IL W - 1,322,120.63 2,332,271.06 sFT 0.99994263 +0 04 57.9
DG8120;UTM 15 - 4,464,942.171 751,693.506 MT 1.00037989 +1 54 58.4
DG8120;UTM 16 - 4,465,165.308 241,723.328 MT 1.00042123 -1 57 59.0
DG8120
DG8120! - Elev Factor x Scale Factor = Combined Factor
DG8120!SPC IL W - 0.99998253 x 0.99994263 = 0.99992516
DG8120!UTM 15 - 0.99998253 x 1.00037989 = 1.00036241
DG8120!UTM 16 - 0.99998253 x 1.00042123 = 1.00040375
DG8120
DG8120_U.S. NATIONAL GRID SPATIAL ADDRESS: 15TYE5169364942(NAD 83)
DG8120
DG8120 SUPERSEDED SURVEY CONTROL
DG8120
DG8120 NAD 83(2007)- 40 17 49.56757(N) 090 02 19.39617(W) AD(2002.00) 0
DG8120 ELLIP H (02/10/07) 111.368 (m) GP(2002.00)
DG8120 ELLIP H (02/03/05) 111.373 (m) GP( ) 4 2
DG8120 NAD 83(1997)- 40 17 49.56742(N) 090 02 19.39612(W) AD( ) 1
DG8120 ELLIP H (12/06/04) 111.383 (m) GP( ) 4 1
DG8120 NAVD 88 (12/06/04) 144.4 (m) GEOID03 model used GPS OBS
DG8120
DG8120.Superseded values are not recommended for survey control.
DG8120
DG8120.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.
DG8120.See file dsdata.pdf to determine how the superseded data were derived.
DG8120
DG8120_MARKER: DD = SURVEY DISK
DG8120_SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT
DG8120_STAMPING: MASON 13 2004
DG8120_MARK LOGO: IL-125

DG8120_PROJECTION: FLUSH
DG8120_MAGNETIC: N = NO MAGNETIC MATERIAL
DG8120_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO
DG8120+STABILITY: SURFACE MOTION
DG8120_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
DG8120+SATELLITE: SATELLITE OBSERVATIONS - October 01, 2014
DG8120
DG8120 HISTORY - Date Condition Report By
DG8120 HISTORY - 20040517 MONUMENTED ILDT
DG8120 HISTORY - 20070117 GOOD INDIV
DG8120 HISTORY - 20141001 GOOD DJHENK
DG8120
DG8120 STATION DESCRIPTION
DG8120
DG8120'DESCRIBED BY ILLINOIS DEPARTMENT OF TRANSPORTATION 2004 (CLW)
DG8120'DESCRIBED BY THE MASON COUNTY HIGHWAY DEPARTMENT 2004. THE STATION IS
DG8120'LOCATED IN HAVANA AT THE INTERSECTION OF 125 N/175 E, 0.43 MILES EAST
DG8120'OF C AND IM RAILROAD CROSSING ON US 136, 43.0 FEET NORTH OF NORTH
DG8120'EDGE US ROUTE 136, 10.6 FEET SOUTHWEST OF POWER POLE 97.0 FEET FROM
DG8120'NORTHEAST CORNER OF NAMED CEMETERY ENTRANCE POST. MONUMENT IS 1.0
DG8120'FT. SOUTH OF A WITNESS POST. STATION IS NEAR THE E QUARTER CORNER OF
DG8120'SECTION 6 T21N, R8W, 3RD P.M.
DG8120
DG8120 STATION RECOVERY (2007)
DG8120
DG8120'RECOVERY NOTE BY INDIVIDUAL CONTRIBUTORS 2007 (MSS)
DG8120'RECOVERED AS DESCRIBED, NORTH OF THE ENTRANCE TO CULLINANE MEMORIAL
DG8120'ADDITION TO LAUREL HILL CEMETARY
DG8120
DG8120 STATION RECOVERY (2014)
DG8120
DG8120'RECOVERY NOTE BY DJ HENKEL AND ASSOCIATES LLC 2014 (TSS)
DG8120'RECOVERED AS DESCRIBED.

*** retrieval complete.
Elapsed Time = 00:00:08

DATASHEETS Data Sheet Retrieval
The NGS Data Sheet

See file dsdata.pdf for more information about the datasheet.
PROGRAM = datasheet95, VERSION = 8.12.5.14
Starting Datasheet Retrieval...
1 National Geodetic Survey, Retrieval Date = APRIL 21, 2022
DG8124 ***
DG8124 DESIGNATION - MASON 16
DG8124 PID - DG8124
DG8124 STATE/COUNTY- IL/MASON
DG8124 COUNTRY - US
DG8124 USGS QUAD - TOPEKA (2018)
DG8124
DG8124 *CURRENT SURVEY CONTROL
DG8124 _____
DG8124* NAD 83(2011) POSITION- 40 17 49.53295(N) 089 58 18.01873(W) ADJUSTED
DG8124* NAD 83(2011) ELLIP HT- 117.448 (meters) (06/27/12) ADJUSTED
DG8124* NAD 83(2011) EPOCH - 2010.00
DG8124* NAVD 88 ORTHO HEIGHT - 150.415 (meters) 493.49 (feet) ADJUSTED
DG8124 _____
DG8124 GEOID HEIGHT - -32.963 (meters) GEOID18
DG8124 NAD 83(2011) X - 2,408.576 (meters) COMP
DG8124 NAD 83(2011) Y - -4,871,526.623 (meters) COMP
DG8124 NAD 83(2011) Z - 4,103,277.026 (meters) COMP
DG8124 LAPLACE CORR - 2.16 (seconds) DEFLEC18
DG8124 DYNAMIC HEIGHT - 150.341 (meters) 493.24 (feet) COMP
DG8124 MODELED GRAVITY - 980,129.2 (mgal) NAVD 88
DG8124
DG8124 VERT ORDER - SECOND CLASS I
DG8124
DG8124 Network accuracy estimates per FGDC Geospatial Positioning Accuracy
DG8124 Standards:
DG8124 FGDC (95% conf, cm) Standard deviation (cm) CorrNE
DG8124 Horiz Ellip SD_N SD_E SD_h (unitless)
DG8124 ----------
DG8124 NETWORK 0.54 0.88 0.26 0.16 0.45 -0.00305299
DG8124 ----------
DG8124 Click here for local accuracies and other accuracy information.
DG8124
DG8124
DG8124.The horizontal coordinates were established by GPS observations
DG8124.and adjusted by the National Geodetic Survey in June 2012.
DG8124
DG8124.NAD 83(2011) refers to NAD 83 coordinates where the reference frame has
DG8124.been affixed to the stable North American tectonic plate. See
DG8124.NA2011 for more information.
DG8124
DG8124.The horizontal coordinates are valid at the epoch date displayed above
DG8124.which is a decimal equivalence of Year/Month/Day.
DG8124
DG8124.The orthometric height was determined by differential leveling and
DG8124.adjusted by the IL DEPT OF TRANSP

DG8124.in July 2015.
DG8124
DG8124.Significant digits in the geoid height do not necessarily reflect accuracy.
DG8124.GEOID18 height accuracy estimate available here.
DG8124
DG8124.Click photographs - Photos may exist for this station.
DG8124
DG8124.The X, Y, and Z were computed from the position and the ellipsoidal ht.
DG8124
DG8124.The Laplace correction was computed from DEFLEC18 derived deflections.
DG8124
DG8124.The ellipsoidal height was determined by GPS observations
DG8124.and is referenced to NAD 83.
DG8124
DG8124.The dynamic height is computed by dividing the NAVD 88
DG8124.geopotential number by the normal gravity value computed on the
DG8124.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
DG8124.degrees latitude (g = 980.6199 gals.).
DG8124
DG8124.The modeled gravity was interpolated from observed gravity values.
DG8124
DG8124. The following values were computed from the NAD 83(2011) position.
DG8124
DG8124; North East Units Scale Factor Converg.
DG8124;SPC IL W - 402,992.506 716,578.000 MT 0.99994456 +0 07 34.0
DG8124;SPC IL W - 1,322,151.25 2,350,972.99 sFT 0.99994456 +0 07 34.0
DG8124;UTM 16 - 4,464,970.724 247,422.993 MT 1.00038538 -1 55 22.6
DG8124;UTM 15 - 4,465,133.970 757,393.234 MT 1.00041562 +1 57 34.7
DG8124
DG8124! - Elev Factor x Scale Factor = Combined Factor
DG8124!SPC IL W - 0.99998158 x 0.99994456 = 0.99992614
DG8124!UTM 16 - 0.99998158 x 1.00038538 = 1.00036695
DG8124!UTM 15 - 0.99998158 x 1.00041562 = 1.00039719
DG8124
DG8124_U.S. NATIONAL GRID SPATIAL ADDRESS: 16TBK4742264970(NAD 83)
DG8124
DG8124 SUPERSEDED SURVEY CONTROL
DG8124
DG8124 NAD 83(2007)- 40 17 49.53339(N) 089 58 18.01957(W) AD(2002.00) 0
DG8124 ELLIP H (02/10/07) 117.442 (m) GP(2002.00)
DG8124 ELLIP H (02/03/05) 117.453 (m) GP( ) 4 2
DG8124 NAD 83(1997)- 40 17 49.53318(N) 089 58 18.01961(W) AD( ) 1
DG8124 ELLIP H (12/06/04) 117.458 (m) GP( ) 4 1
DG8124 NAVD 88 (12/06/04) 150.4 (m) GEOID03 model used GPS OBS
DG8124
DG8124.Superseded values are not recommended for survey control.
DG8124
DG8124.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.
DG8124.See file dsdata.pdf to determine how the superseded data were derived.
DG8124
DG8124_MARKER: DD = SURVEY DISK
DG8124_SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT
DG8124_STAMPING: MASON 16 2004
DG8124_MARK LOGO: IL-125

DG8124_PROJECTION: FLUSH
DG8124_MAGNETIC: N = NO MAGNETIC MATERIAL
DG8124_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO
DG8124+STABILITY: SURFACE MOTION
DG8124_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
DG8124+SATELLITE: SATELLITE OBSERVATIONS - October 01, 2014
DG8124
DG8124 HISTORY   - Date   Condition   Report By
DG8124 HISTORY   - 20040517 MONUMENTED   ILDT
DG8124 HISTORY   - 20141001 GOOD   DJHENK
DG8124
DG8124   STATION DESCRIPTION
DG8124
DG8124'DESCRIBED BY ILLINOIS DEPARTMENT OF TRANSPORTATION 2004 (CLW)
DG8124'DESCRIBED BY THE MASON COUNTY HIGHWAY DEPARTMENT 2004. THE STATION IS
DG8124'LOCATED AT 0.43 MILES EAST OF 2000E ON US 136, 49.7 FEET SOUTH OF
DG8124'SOUTH EDGE OF US 136, 88.1 FEET SOUTHWEST OF WEST END OF METAL PIPE
DG8124'CULVERT UNDER FIELD ENTRANCE, 9.0 FEET EAST OF POWER POLE. MONUMENT
DG8124'IS 1.0 FEET NORTH OF A WITNESS POST. STATION IS NEAR THE CENTER OF
DG8124'SECTION 2 T21N, R8W, 3RD P.M.
DG8124
DG8124   STATION RECOVERY (2014)
DG8124
DG8124'RECOVERY NOTE BY DJ HENKEL AND ASSOCIATES LLC 2014 (TSS)
DG8124'RECOVERED AS DESCRIBED.

*** retrieval complete.
Elapsed Time = 00:00:05

DATASHEETS Data Sheet Retrieval
The NGS Data Sheet

See file dsdata.pdf for more information about the datasheet.
PROGRAM = datasheet95, VERSION = 8.12.5.14
Starting Datasheet Retrieval...
1 National Geodetic Survey, Retrieval Date = APRIL 21, 2022
LD0254 ***
LD0254 DESIGNATION - N 239
LD0254 PID - LD0254
LD0254 STATE/COUNTY- IL/MASON
LD0254 COUNTRY - US
LD0254 USGS QUAD - HAVANA (2018)
LD0254
LD0254 *CURRENT SURVEY CONTROL
LD0254 _____
LD0254* NAD 83(2011) POSITION- 40 16 29.99204(N) 090 03 58.00316(W) ADJUSTED
LD0254* NAD 83(2011) ELLIP HT- 110.001 (meters) (06/27/12) ADJUSTED
LD0254* NAD 83(2011) EPOCH - 2010.00
LD0254* NAVD 88 ORTHO HEIGHT - 143.021 (meters) 469.23 (feet) ADJUSTED
LD0254 _____
LD0254 GEOID HEIGHT - -33.015 (meters) GEOID18
LD0254 NAD 83(2011) X - -5,622.941 (meters) COMP
LD0254 NAD 83(2011) Y - -4,873,104.699 (meters) COMP
LD0254 NAD 83(2011) Z - 4,101,400.662 (meters) COMP
LD0254 LAPLACE CORR - 1.33 (seconds) DEFLEC18
LD0254 DYNAMIC HEIGHT - 142.949 (meters) 468.99 (feet) COMP
LD0254 MODELED GRAVITY - 980,126.6 (mgal) NAVD 88
LD0254
LD0254 VERT ORDER - FIRST CLASS II
LD0254
LD0254 Network accuracy estimates per FGDC Geospatial Positioning Accuracy
LD0254 Standards:
LD0254 FGDC (95% conf, cm) Standard deviation (cm) CorrNE
LD0254 Horiz Ellip SD_N SD_E SD_h (unitless)
LD0254 ----------
LD0254 NETWORK 0.81 1.35 0.38 0.26 0.69 -0.01771371
LD0254 ----------
LD0254 Click here for local accuracies and other accuracy information.
LD0254
LD0254
LD0254.The horizontal coordinates were established by GPS observations
LD0254.and adjusted by the National Geodetic Survey in June 2012.
LD0254
LD0254.NAD 83(2011) refers to NAD 83 coordinates where the reference frame has
LD0254.been affixed to the stable North American tectonic plate. See
LD0254.NA2011 for more information.
LD0254
LD0254.The horizontal coordinates are valid at the epoch date displayed above
LD0254.which is a decimal equivalence of Year/Month/Day.
LD0254
LD0254.The orthometric height was determined by differential leveling and
LD0254.adjusted by the NATIONAL GEODETIC SURVEY

LD0254.in June 1991.
LD0254
LD0254.Significant digits in the geoid height do not necessarily reflect accuracy.
LD0254.GEOID18 height accuracy estimate available here.
LD0254
LD0254.Click photographs - Photos may exist for this station.
LD0254
LD0254.The X, Y, and Z were computed from the position and the ellipsoidal ht.
LD0254
LD0254.The Laplace correction was computed from DEFLEC18 derived deflections.
LD0254
LD0254.The ellipsoidal height was determined by GPS observations
LD0254.and is referenced to NAD 83.
LD0254
LD0254.The dynamic height is computed by dividing the NAVD 88
LD0254.geopotential number by the normal gravity value computed on the
LD0254.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
LD0254.degrees latitude (g = 980.6199 gals.).
LD0254
LD0254.The modeled gravity was interpolated from observed gravity values.
LD0254
LD0254. The following values were computed from the NAD 83(2011) position.
LD0254
LD0254;   North   East   Units Scale Factor Converg.
LD0254;SPC IL W   -   400,525.858   708,551.705   MT 0.99994208   +0 03 54.0
LD0254;SPC IL W   - 1,314,058.59 2,324,640.05   sFT 0.99994208   +0 03 54.0
LD0254;UTM 15   - 4,462,410.625   749,446.394   MT 1.00036603   +1 53 51.4
LD0254;UTM 16   - 4,462,791.558   239,309.857   MT 1.00043666   -1 58 59.6
LD0254
LD0254!   - Elev Factor x Scale Factor =   Combined Factor
LD0254!SPC IL W   -   0.99998274 x   0.99994208 =   0.99992483
LD0254!UTM 15   -   0.99998274 x   1.00036603 =   1.00034877
LD0254!UTM 16   -   0.99998274 x   1.00043666 =   1.00041940
LD0254
LD0254_U.S. NATIONAL GRID SPATIAL ADDRESS: 15TYE4944662410(NAD 83)
LD0254
LD0254   SUPERSEDED SURVEY CONTROL
LD0254
LD0254 NAD 83(2007)- 40 16 29.99235(N)   090 03 58.00396(W) AD(2002.00) 0
LD0254 ELLIP H (02/10/07) 110.001 (m)   GP(2002.00)
LD0254 ELLIP H (02/03/05) 109.999 (m)   GP(   ) 4 2
LD0254 NAD 83(1997)- 40 16 29.99228(N)   090 03 58.00375(W) AD(   ) 1
LD0254 ELLIP H (12/06/04) 110.014 (m)   GP(   ) 4 1
LD0254 NAVD 88   143.02   (m)   469.2   (f) LEVELING   3
LD0254 NGVD 29 (??/??/92) 143.116 (m)   469.54   (f) ADJ UNCH   1 2
LD0254
LD0254.Superseded values are not recommended for survey control.
LD0254
LD0254.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.
LD0254.See file dsdata.pdf to determine how the superseded data were derived.
LD0254
LD0254_MARKER: DB = BENCH MARK DISK
LD0254_SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT
LD0254_STAMPING: N 239 1961

LD0254_MARK LOGO: CGS
LD0254_PROJECTION: FLUSH
LD0254_MAGNETIC: N = NO MAGNETIC MATERIAL
LD0254_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO
LD0254+STABILITY: SURFACE MOTION
LD0254_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
LD0254+SATELLITE: SATELLITE OBSERVATIONS - July 09, 2020
LD0254
LD0254 HISTORY - Date Condition Report By
LD0254 HISTORY - 1961 MONUMENTED CGS
LD0254 HISTORY - 20040517 GOOD ILDT
LD0254 HISTORY - 20070117 GOOD INDIV
LD0254 HISTORY - 20111016 GOOD ATKNA
LD0254 HISTORY - 20120813 GOOD ILDT
LD0254 HISTORY - 20170405 GOOD INDIV
LD0254 HISTORY - 20200709 GOOD ILDT
LD0254
LD0254 STATION DESCRIPTION
LD0254
LD0254'DESCRIBED BY COAST AND GEODETIC SURVEY 1961
LD0254'1.7 MI S FROM HAVANA.
LD0254'ABOUT 1.7 MILES SOUTH ALONG SCHRADER AVENUE, PEAR STREET AND A
LD0254'BLACK TOP ROAD FROM THE POST OFFICE AT HAVANA, 0.4 MILE SOUTH OF
LD0254'THE NETELEL AND ST MARYS CEMETERIES, 17 1/2 FEET EAST OF THE
LD0254'CENTER LINE OF THE BLACK TOP ROAD, 77 FEET NORTH OF THE CENTER
LD0254'LINE OF AN EAST-WEST GRAVEL ROAD, 64.8 FEET SOUTH OF A PIPE ON
LD0254'THE EAST SIDE OF THE ROAD THAT MARKS AN OIL PIPE LINE CROSSING
LD0254'THE BLACK TOP ROAD, 37 FEET EAST AND ACROSS THE BLACK TOP ROAD
LD0254'FROM THE SOUTH ONE OF TWO POWER LINE POLES, 2 FEET SOUTH OF A
LD0254'METAL WITNESS POST, 1.5 FEET ABOVE THE LEVEL OF THE BLACK TOP
LD0254'ROAD, 1.5 FEET WEST OF A WIRE FENCE, SET IN THE TOP OF A CONCRETE
LD0254'POST PROJECTING 2 INCHES ABOVE THE LEVEL OF THE GROUND.
LD0254
LD0254 STATION RECOVERY (2004)
LD0254
LD0254'RECOVERY NOTE BY ILLINOIS DEPARTMENT OF TRANSPORTATION 2004
LD0254'RECOVERED IN GOOD CONDITION.
LD0254
LD0254 STATION RECOVERY (2007)
LD0254
LD0254'RECOVERY NOTE BY INDIVIDUAL CONTRIBUTORS 2007 (MSS)
LD0254'RECOVERED WITH METAL FENCE POST GUARD, 77'+/- NORTH OF CL 1500N ROAD,
LD0254'AND 17'+/- EAST OF CL 1550E ROAD
LD0254
LD0254 STATION RECOVERY (2011)
LD0254
LD0254'RECOVERY NOTE BY ATKINS NORTH AMERICA INC 2011 (DWD)
LD0254'THIS STATION WAS RECOVERED AS PART OF THE NATIONAL LEVEE DATABASE
LD0254'INVENTORY FOR THE ROCK ISLAND MILITARY DISTRICT OF THE UNITED STATES
LD0254'ARMY CORPS OF ENGINEERS.
LD0254
LD0254 STATION RECOVERY (2012)
LD0254
LD0254'RECOVERY NOTE BY ILLINOIS DEPARTMENT OF TRANSPORTATION 2012 (MW)

LD0254'RECOVERED IN GOOD CONDITION.
LD0254
LD0254 STATION RECOVERY (2017)
LD0254
LD0254'RECOVERY NOTE BY INDIVIDUAL CONTRIBUTORS 2017 (DLB)
LD0254'RECOVERED IN GOOD CONDITION.
LD0254
LD0254 STATION RECOVERY (2020)
LD0254
LD0254'RECOVERY NOTE BY ILLINOIS DEPARTMENT OF TRANSPORTATION 2020 (DL)
LD0254'RECOVERED IN GOOD CONDITION.

*** retrieval complete.
Elapsed Time = 00:00:06

DATASHEETS Data Sheet Retrieval
The NGS Data Sheet

See file dsdata.pdf for more information about the datasheet.
PROGRAM = datasheet95, VERSION = 8.12.5.14
Starting Datasheet Retrieval...
1 National Geodetic Survey, Retrieval Date = APRIL 21, 2022
DH8092 **********
DH8092 DESIGNATION - NORWOOD
DH8092 PID - DH8092
DH8092 STATE/COUNTY- IL/MERCER
DH8092 COUNTRY - US
DH8092 USGS QUAD - ALEXIS (2018)
DH8092
DH8092 *CURRENT SURVEY CONTROL
DH8092 _____
DH8092* NAD 83(2011) POSITION- 41 05 15.76201(N) 090 35 22.14054(W) ADJUSTED
DH8092* NAD 83(2011) ELLIP HT- 188.143 (meters) (06/27/12) ADJUSTED
DH8092* NAD 83(2011) EPOCH - 2010.00
DH8092* NAVD 88 ORTHO HEIGHT - 221.074 (meters) 725.31 (feet) ADJUSTED
DH8092 _____
DH8092 GEOID HEIGHT - -32.945 (meters) GEOID18
DH8092 NAD 83(2011) X - -49,531.081 (meters) COMP
DH8092 NAD 83(2011) Y - -4,814,081.856 (meters) COMP
DH8092 NAD 83(2011) Z - 4,169,893.430 (meters) COMP
DH8092 LAPLACE CORR - 0.71 (seconds) DEFLEC18
DH8092 DYNAMIC HEIGHT - 220.980 (meters) 725.00 (feet) COMP
DH8092 MODELED GRAVITY - 980,193.6 (mgal) NAVD 88
DH8092
DH8092 VERT ORDER - SECOND CLASS I
DH8092
DH8092 Network accuracy estimates per FGDC Geospatial Positioning Accuracy
DH8092 Standards:
DH8092 FGDC (95% conf, cm) Standard deviation (cm) CorrNE
DH8092 Horiz Ellip SD_N SD_E SD_h (unitless)
DH8092 ----------
DH8092 NETWORK 0.98 1.74 0.43 0.36 0.89 0.12602616
DH8092 ----------
DH8092 Click here for local accuracies and other accuracy information.
DH8092
DH8092
DH8092.The horizontal coordinates were established by GPS observations
DH8092.and adjusted by the National Geodetic Survey in June 2012.
DH8092
DH8092.NAD 83(2011) refers to NAD 83 coordinates where the reference frame has
DH8092.been affixed to the stable North American tectonic plate. See
DH8092.NA2011 for more information.
DH8092
DH8092.The horizontal coordinates are valid at the epoch date displayed above
DH8092.which is a decimal equivalence of Year/Month/Day.
DH8092
DH8092.The orthometric height was determined by differential leveling and
DH8092.adjusted by the NATIONAL GEODETIC SURVEY

DH8092.in July 2014.
DH8092
DH8092.Significant digits in the geoid height do not necessarily reflect accuracy.
DH8092.GEOID18 height accuracy estimate available here.
DH8092
DH8092.Click photographs - Photos may exist for this station.
DH8092
DH8092.The X, Y, and Z were computed from the position and the ellipsoidal ht.
DH8092
DH8092.The Laplace correction was computed from DEFLEC18 derived deflections.
DH8092
DH8092.The ellipsoidal height was determined by GPS observations
DH8092.and is referenced to NAD 83.
DH8092
DH8092.The dynamic height is computed by dividing the NAVD 88
DH8092.geopotential number by the normal gravity value computed on the
DH8092.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
DH8092.degrees latitude (g = 980.6199 gals.).
DH8092
DH8092.The modeled gravity was interpolated from observed gravity values.
DH8092
DH8092. The following values were computed from the NAD 83(2011) position.
DH8092
DH8092; North East Units Scale Factor Converg.
DH8092;SPC IL W - 490,851.898 664,475.475 MT 0.99995670 -0 16 40.4
DH8092;SPC IL W - 1,610,403.27 2,180,033.29 sFT 0.99995670 -0 16 40.4
DH8092;UTM 15 - 4,551,293.957 702,467.388 MT 1.00010455 +1 35 05.1
DH8092
DH8092! - Elev Factor x Scale Factor = Combined Factor
DH8092!SPC IL W - 0.99997049 x 0.99995670 = 0.99992719
DH8092!UTM 15 - 0.99997049 x 1.00010455 = 1.00007504
DH8092
DH8092_U.S. NATIONAL GRID SPATIAL ADDRESS: 15TYF0246751293(NAD 83)
DH8092
DH8092 SUPERSEDED SURVEY CONTROL
DH8092
DH8092 NAD 83(2007)- 41 05 15.76176(N) 090 35 22.14119(W) AD(2002.00) 1
DH8092 ELLIP H (04/17/09) 188.192 (m) GP(2002.00) 4 1
DH8092 NAD 83(1997)- 41 05 15.76156(N) 090 35 22.14082(W) AD( ) 1
DH8092 ELLIP H (02/22/06) 188.187 (m) GP( ) 4 1
DH8092 NAVD 88 (02/22/06) 221.1 (m) GEOID03 model used GPS OBS
DH8092
DH8092.Superseded values are not recommended for survey control.
DH8092
DH8092.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.
DH8092.See file dsdata.pdf to determine how the superseded data were derived.
DH8092
DH8092_MARKER: I = METAL ROD
DH8092_SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT
DH8092_STAMPING: M
DH8092_PROJECTION: FLUSH
DH8092_MAGNETIC: I = MARKER IS A STEEL ROD
DH8092_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO
DH8092+STABILITY: SURFACE MOTION

DH8092_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
DH8092+SATELLITE: SATELLITE OBSERVATIONS - April 15, 2013
DH8092
DH8092 HISTORY   - Date   Condition   Report By
DH8092 HISTORY   - UNK   MONUMENTED   ILDT
DH8092 HISTORY   - 20051101 GOOD   ILDT
DH8092 HISTORY   - 20130415 GOOD   ILDT
DH8092
DH8092   STATION DESCRIPTION
DH8092
DH8092'DESCRIBED BY ILLINOIS DEPARTMENT OF TRANSPORTATION 2005 (CW)
DH8092'TO REACH THE STATION FROM THE INTERSECTION OF U.S. 67 AND IL. 135,
DH8092'1.90 MILES WEST OF ALEXIS, PROCEED NORTH ON U.S. 67 1.45 MILES TO THE
DH8092'STATION IN THE SOUTHWEST QUAD OF THE INTERSECTION OF U.S. 67 AND 15TH
DH8092'AVE. THE STATION IS 53.50 FEET WEST OF THE CENTERLINE OF U.S. 67,
DH8092'33.50 FEET SOUTH OF THE CENTERLINE OF 15TH AVE., 48.75 FEET EAST OF A
DH8092'P.K. NAIL SET ON THE EAST SIDE OF A POWER POLE ALONG 15TH AVE. IN THE
DH8092'SOUTHWEST QUAD OF THE INTERSECTION, AND 97.75 FEET SOUTHWEST OF A
DH8092'CHISELED X ON THE NORTH CORNER OF A CONCRETE ISLAND IN THE NORTHEAST
DH8092'QUAD OF THE INTERSECTION AND 10 FT 8 IN E OF A SIGN WITH DIRECTIONS
DH8092'TO NORWOOD PRESBYTERIAN CHURCH AND 14 FT 5 IN S OF A STOP SIGN. THE
DH8092'STATION IS A 0.05 FOOT DIAMETER REBAR SET IN CONCRETE WITH A SQUARE
DH8092'CAST IRON COVER WITH THE LETTER M STAMPED ON IT , FLUSH WITH THE
DH8092'GROUND.
DH8092
DH8092   STATION RECOVERY (2013)
DH8092
DH8092'RECOVERY NOTE BY ILLINOIS DEPARTMENT OF TRANSPORTATION 2013 (JBR)
DH8092'RECOVERED AS DESCRIBED.

*** retrieval complete.
Elapsed Time = 00:00:06

DATASHEETS Data Sheet Retrieval
The NGS Data Sheet

See file dsdata.pdf for more information about the datasheet.
PROGRAM = datasheet95, VERSION = 8.12.5.14
Starting Datasheet Retrieval...
1 National Geodetic Survey, Retrieval Date = APRIL 21, 2022
LC0841 **********
LC0841 DESIGNATION - P 229
LC0841 PID - LC0841
LC0841 STATE/COUNTY- IL/WOODFORD
LC0841 COUNTRY - US
LC0841 USGS QUAD - MINONK (2018)
LC0841
LC0841 *CURRENT SURVEY CONTROL
LC0841 _____
LC0841* NAD 83(2011) POSITION- 40 52 55.69795(N) 089 01 51.22409(W) ADJUSTED
LC0841* NAD 83(2011) ELLIP HT- 192.969 (meters) (06/27/12) ADJUSTED
LC0841* NAD 83(2011) EPOCH - 2010.00
LC0841* NAVD 88 ORTHO HEIGHT - 225.398 (meters) 739.49 (feet) ADJUSTED
LC0841 _____
LC0841 GEOID HEIGHT - -32.433 (meters) GEOID18
LC0841 NAD 83(2011) X - 81,679.423 (meters) COMP
LC0841 NAD 83(2011) Y - -4,828,623.032 (meters) COMP
LC0841 NAD 83(2011) Z - 4,152,662.382 (meters) COMP
LC0841 LAPLACE CORR - 1.90 (seconds) DEFLEC18
LC0841 DYNAMIC HEIGHT - 225.300 (meters) 739.17 (feet) COMP
LC0841 MODELED GRAVITY - 980,183.3 (mgal) NAVD 88
LC0841
LC0841 VERT ORDER - FIRST CLASS I
LC0841
LC0841 Network accuracy estimates per FGDC Geospatial Positioning Accuracy
LC0841 Standards:
LC0841 FGDC (95% conf, cm) Standard deviation (cm) CorrNE
LC0841 Horiz Ellip SD_N SD_E SD_h (unitless)
LC0841 ----------
LC0841 NETWORK 0.63 0.98 0.28 0.23 0.50 -0.11480018
LC0841 ----------
LC0841 Click here for local accuracies and other accuracy information.
LC0841
LC0841
LC0841.The horizontal coordinates were established by GPS observations
LC0841.and adjusted by the National Geodetic Survey in June 2012.
LC0841
LC0841.NAD 83(2011) refers to NAD 83 coordinates where the reference frame has
LC0841.been affixed to the stable North American tectonic plate. See
LC0841.NA2011 for more information.
LC0841
LC0841.The horizontal coordinates are valid at the epoch date displayed above
LC0841.which is a decimal equivalence of Year/Month/Day.
LC0841
LC0841.The orthometric height was determined by differential leveling and
LC0841.adjusted by the NATIONAL GEODETIC SURVEY

LC0841.in June 1991.
LC0841
LC0841.Significant digits in the geoid height do not necessarily reflect accuracy.
LC0841.GEOID18 height accuracy estimate available here.
LC0841
LC0841.Click photographs - Photos may exist for this station.
LC0841
LC0841.The X, Y, and Z were computed from the position and the ellipsoidal ht.
LC0841
LC0841.The Laplace correction was computed from DEFLEC18 derived deflections.
LC0841
LC0841.The ellipsoidal height was determined by GPS observations
LC0841.and is referenced to NAD 83.
LC0841
LC0841.The dynamic height is computed by dividing the NAVD 88
LC0841.geopotential number by the normal gravity value computed on the
LC0841.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
LC0841.degrees latitude (g = 980.6199 gals.).
LC0841
LC0841.The modeled gravity was interpolated from observed gravity values.
LC0841
LC0841. The following values were computed from the NAD 83(2011) position.
LC0841
LC0841;   North   East   Units Scale Factor Converg.
LC0841;SPC IL W   -   468,558.444   795,723.610   MT 1.00005392   +0 44 36.3
LC0841;SPC IL W   - 1,537,262.16 2,610,636.54   sFT 1.00005392   +0 44 36.3
LC0841;UTM 16   - 4,527,658.717   328,889.473   MT 0.99996038   -1 19 46.4
LC0841
LC0841!   - Elev Factor x Scale Factor =   Combined Factor
LC0841!SPC IL W   -   0.99996973 x   1.00005392 =   1.00002365
LC0841!UTM 16   -   0.99996973 x   0.99996038 =   0.99993011
LC0841
LC0841_U.S. NATIONAL GRID SPATIAL ADDRESS: 16TCL2888927658(NAD 83)
LC0841
LC0841   SUPERSEDED SURVEY CONTROL
LC0841
LC0841 NAD 83(2007)- 40 52 55.69770(N)   089 01 51.22502(W) AD(2002.00) 1
LC0841 ELLIP H (08/01/11) 192.999 (m)   GP(2002.00) 3 1
LC0841 NAVD 88   225.40   (m)   739.5   (f) LEVELING   3
LC0841 NGVD 29 (??/??/92) 225.448 (m)   739.66   (f) ADJ UNCH   1 1
LC0841
LC0841.Superseded values are not recommended for survey control.
LC0841
LC0841.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.
LC0841.See file dsdata.pdf to determine how the superseded data were derived.
LC0841
LC0841_MARKER: DB = BENCH MARK DISK
LC0841_SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT
LC0841_STAMPING: P 229 1960
LC0841_MARK LOGO: CGS
LC0841_PROJECTION: FLUSH
LC0841_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO
LC0841+STABILITY: SURFACE MOTION
LC0841_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR

LC0841+SATELLITE: SATELLITE OBSERVATIONS - April 16, 2015
LC0841
LC0841 HISTORY   - Date   Condition   Report By
LC0841 HISTORY   - 1960   MONUMENTED   CGS
LC0841 HISTORY   - 1969   GOOD   CGS
LC0841 HISTORY   - 19981014 GOOD   USPSQD
LC0841 HISTORY   - 20100501 GOOD   ILDT
LC0841 HISTORY   - 20130724 GOOD   ILDT
LC0841 HISTORY   - 20140324 GOOD   PATRIC
LC0841 HISTORY   - 20150416 GOOD   DJHENK
LC0841
LC0841   STATION DESCRIPTION
LC0841
LC0841'DESCRIBED BY COAST AND GEODETIC SURVEY 1969
LC0841'1.4 MI S FROM MINONK.
LC0841'ABOUT 1.35 MILES SOUTH ALONG THE ILLINOIS CENTRAL RAILROAD FROM
LC0841'THE STATION AT MINONK, 0.25 MILE SOUTH OF MILEPOST 824, AT A
LC0841'CROSSING OF THE RAILROAD AND A PAVED ROAD, 94 FEET EAST OF THE
LC0841'EAST RAIL OF THE MAIN TRACK, 36 1/2 FEET SOUTH OF THE CENTER
LC0841'LINE OF THE ROAD, 148 FEET WEST OF THE CENTER LINE OF A DRIVEWAY,
LC0841'4 FEET SOUTH OF A POWER POLE, ABOUT 5 FEET BELOW THE LEVEL OF THE
LC0841'TRACK, AND SET IN THE TOP OF A CONCRETE POST WHICH IS LEVEL WITH
LC0841'THE SURFACE OF THE GROUND. SEC 19, T28N, R2E
LC0841
LC0841   STATION RECOVERY (1998)
LC0841
LC0841'RECOVERY NOTE BY US POWER SQUADRON 1998
LC0841'RECOVERED IN GOOD CONDITION.
LC0841
LC0841   STATION RECOVERY (2010)
LC0841
LC0841'RECOVERY NOTE BY ILLINOIS DEPARTMENT OF TRANSPORTATION 2010 (CW)
LC0841'RECOVERED AS DESCRIBED
LC0841
LC0841   STATION RECOVERY (2013)
LC0841
LC0841'RECOVERY NOTE BY ILLINOIS DEPARTMENT OF TRANSPORTATION 2013 (MW)
LC0841'RECOVERED IN GOOD CONDITION.
LC0841
LC0841   STATION RECOVERY (2014)
LC0841
LC0841'RECOVERY NOTE BY PATRICK ENGINEERING INCORPORATED 2014 (SAL)
LC0841'RECOVERED AS DESCRIBED.
LC0841
LC0841   STATION RECOVERY (2015)
LC0841
LC0841'RECOVERY NOTE BY DJ HENKEL AND ASSOCIATES LLC 2015 (TSS)
LC0841'RECOVERED AS DESCRIBED.

*** retrieval complete.
Elapsed Time = 00:00:06

DATASHEETS Data Sheet Retrieval
The NGS Data Sheet

See file dsdata.pdf for more information about the datasheet.
PROGRAM = datasheet95, VERSION = 8.12.5.14
Starting Datasheet Retrieval...
1 National Geodetic Survey, Retrieval Date = APRIL 21, 2022
LD0377 ***
LD0377 DESIGNATION - PTS 61
LD0377 PID - LD0377
LD0377 STATE/COUNTY- IL/MCDONOUGH
LD0377 COUNTRY - US
LD0377 USGS QUAD - COLCHESTER (2018)
LD0377
LD0377 *CURRENT SURVEY CONTROL
LD0377 _____
LD0377* NAD 83(2011) POSITION- 40 23 21.10842(N) 090 52 07.89425(W) ADJUSTED
LD0377* NAD 83(2011) ELLIP HT- 162.939 (meters) (06/27/12) ADJUSTED
LD0377* NAD 83(2011) EPOCH - 2010.00
LD0377* NAVD 88 ORTHO HEIGHT - 196.137 (meters) 643.49 (feet) ADJUSTED
LD0377 _____
LD0377 GEOID HEIGHT - -33.210 (meters) GEOID18
LD0377 NAD 83(2011) X - -73,771.371 (meters) COMP
LD0377 NAD 83(2011) Y - -4,864,381.550 (meters) COMP
LD0377 NAD 83(2011) Z - 4,111,101.758 (meters) COMP
LD0377 LAPLACE CORR - 0.53 (seconds) DEFLEC18
LD0377 DYNAMIC HEIGHT - 196.039 (meters) 643.17 (feet) COMP
LD0377 MODELED GRAVITY - 980,125.8 (mgal) NAVD 88
LD0377
LD0377 VERT ORDER - SECOND CLASS 0
LD0377
LD0377 Network accuracy estimates per FGDC Geospatial Positioning Accuracy
LD0377 Standards:
LD0377 FGDC (95% conf, cm) Standard deviation (cm) CorrNE
LD0377 Horiz Ellip SD_N SD_E SD_h (unitless)
LD0377 ----------
LD0377 NETWORK 0.54 0.94 0.23 0.21 0.48 -0.08036722
LD0377 ----------
LD0377 Click here for local accuracies and other accuracy information.
LD0377
LD0377
LD0377.The horizontal coordinates were established by GPS observations
LD0377.and adjusted by the National Geodetic Survey in June 2012.
LD0377
LD0377.NAD 83(2011) refers to NAD 83 coordinates where the reference frame has
LD0377.been affixed to the stable North American tectonic plate. See
LD0377.NA2011 for more information.
LD0377
LD0377.The horizontal coordinates are valid at the epoch date displayed above
LD0377.which is a decimal equivalence of Year/Month/Day.
LD0377
LD0377.The orthometric height was determined by differential leveling and
LD0377.adjusted by the NATIONAL GEODETIC SURVEY

LD0377.in June 1991.
LD0377
LD0377.Significant digits in the geoid height do not necessarily reflect accuracy.
LD0377.GEOID18 height accuracy estimate available here.
LD0377
LD0377.Click photographs - Photos may exist for this station.
LD0377
LD0377.The X, Y, and Z were computed from the position and the ellipsoidal ht.
LD0377
LD0377.The Laplace correction was computed from DEFLEC18 derived deflections.
LD0377
LD0377.The ellipsoidal height was determined by GPS observations
LD0377.and is referenced to NAD 83.
LD0377
LD0377.The dynamic height is computed by dividing the NAVD 88
LD0377.geopotential number by the normal gravity value computed on the
LD0377.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
LD0377.degrees latitude (g = 980.6199 gals.).
LD0377
LD0377.The modeled gravity was interpolated from observed gravity values.
LD0377
LD0377. The following values were computed from the NAD 83(2011) position.
LD0377
LD0377;   North   East   Units Scale Factor Converg.
LD0377;SPC IL W   -   413,437.763   640,382.127   MT 0.99998491   -0 27 18.1
LD0377;SPC IL W   - 1,356,420.39 2,100,987.03   sFT 0.99998491   -0 27 18.1
LD0377;UTM 15   - 4,473,136.060   680,883.287   MT 1.00000277   +1 22 52.7
LD0377
LD0377!   - Elev Factor x Scale Factor =   Combined Factor
LD0377!SPC IL W   -   0.99997444 x   0.99998491 =   0.99995935
LD0377!UTM 15   -   0.99997444 x   1.00000277 =   0.99997721
LD0377
LD0377_U.S. NATIONAL GRID SPATIAL ADDRESS: 15TXE8088373136(NAD 83)
LD0377
LD0377   SUPERSEDED SURVEY CONTROL
LD0377
LD0377 NAD 83(2007)- 40 23 21.10845(N)   090 52 07.89497(W) AD(2002.00) 1
LD0377 ELLIP H (08/01/11) 162.962 (m)   GP(2002.00) 3 1
LD0377 NAVD 88   196.14   (m)   643.5   (f) LEVELING   3
LD0377 NGVD 29 (??/??/92) 196.210 (m)   643.73   (f) ADJ UNCH   2 0
LD0377
LD0377.Superseded values are not recommended for survey control.
LD0377
LD0377.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.
LD0377.See file dsdata.pdf to determine how the superseded data were derived.
LD0377
LD0377_MARKER: P = PIPE CAP
LD0377_SETTING: 17 = SET INTO TOP OF METAL PIPE DRIVEN INTO GROUND
LD0377_STAMPING: 61 ILL 1910
LD0377_MARK LOGO: USGS
LD0377_PROJECTION: PROJECTING 30 CENTIMETERS
LD0377_MAGNETIC: P = MARKER IS A STEEL PIPE
LD0377_STABILITY: D = MARK OF QUESTIONABLE OR UNKNOWN STABILITY
LD0377_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR

LD0377+SATELLITE: SATELLITE OBSERVATIONS - April 17, 2017
LD0377
LD0377 HISTORY   - Date   Condition   Report By
LD0377 HISTORY   - 1910   MONUMENTED   USGS
LD0377 HISTORY   - 1935   GOOD   CGS
LD0377 HISTORY   - 20100501 GOOD   ILDT
LD0377 HISTORY   - 20110908 GOOD   ILDT
LD0377 HISTORY   - 20170417 GOOD   INDIV
LD0377
LD0377   STATION DESCRIPTION
LD0377
LD0377'DESCRIBED BY COAST AND GEODETIC SURVEY 1935
LD0377'2.5 MI SW FROM TENNESSEE.
LD0377'2.5 MILES SOUTHWEST ALONG THE CHICAGO, BURLINGTON AND QUINCY
LD0377'RAILROAD FROM THE STATION AT TENNESSEE, MCDONOUGH COUNTY, THENCE
LD0377'500 FEET EAST ALONG A COUNTY ROAD, AND IN LINE WITH THE CENTERLINE
LD0377'OF A T-ROAD LEADING WEST. A UNITED STATES GEOLOGICAL SURVEY
LD0377'STANDARD CAP, STAMPED 61 ILL 1910 AND RIVETED ON THE TOP OF A
LD0377'3-1/2-INCH IRON PIPE PROJECTING ONE FOOT ABOVE GROUND.
LD0377
LD0377   STATION RECOVERY (2010)
LD0377
LD0377'RECOVERY NOTE BY ILLINOIS DEPARTMENT OF TRANSPORTATION 2010 (CW)
LD0377'RECOVERED AS DESCRIBED
LD0377
LD0377   STATION RECOVERY (2011)
LD0377
LD0377'RECOVERY NOTE BY ILLINOIS DEPARTMENT OF TRANSPORTATION 2011 (DEL)
LD0377'THE STATION IS LOCATED ABOUT 7.2 MI (11.6 KM) NORTH-NORTHEAST OF
LD0377'PLYMOUTH AND 5.9 MI (9.5 KM) WEST-NORTHWEST OF FANDON.
LD0377'
LD0377'RECOVERED AS DESCRIBED.
LD0377
LD0377   STATION RECOVERY (2017)
LD0377
LD0377'RECOVERY NOTE BY INDIVIDUAL CONTRIBUTORS 2017 (DLB)
LD0377'RECOVERED IN GOOD CONDITION.

*** retrieval complete.
Elapsed Time = 00:00:07

DATASHEETS Data Sheet Retrieval
The NGS Data Sheet

See file dsdata.pdf for more information about the datasheet.
PROGRAM = datasheet95, VERSION = 8.12.5.14
Starting Datasheet Retrieval...
1 National Geodetic Survey, Retrieval Date = APRIL 21, 2022
LC1289 ***
LC1289 FBN - This is a Federal Base Network Control Station.
LC1289 DESIGNATION - Q 161
LC1289 PID - LC1289
LC1289 STATE/COUNTY- IL/TAZEWELL
LC1289 COUNTRY - US
LC1289 USGS QUAD - MARQUETTE HEIGHTS (2018)
LC1289
LC1289 *CURRENT SURVEY CONTROL
LC1289 _____
LC1289* NAD 83(2011) POSITION- 40 32 59.67092(N) 089 35 31.83186(W) ADJUSTED
LC1289* NAD 83(2011) ELLIP HT- 163.114 (meters) (06/27/12) ADJUSTED
LC1289* NAD 83(2011) EPOCH - 2010.00
LC1289* NAVD 88 ORTHO HEIGHT - 195.965 (meters) 642.93 (feet) ADJUSTED
LC1289 _____
LC1289 GEOID HEIGHT - -32.865 (meters) GEOID18
LC1289 NAD 83(2011) X - 34,545.327 (meters) COMP
LC1289 NAD 83(2011) Y - -4,853,234.951 (meters) COMP
LC1289 NAD 83(2011) Z - 4,124,678.598 (meters) COMP
LC1289 LAPLACE CORR - 2.54 (seconds) DEFLEC18
LC1289 DYNAMIC HEIGHT - 195.871 (meters) 642.62 (feet) COMP
LC1289 MODELED GRAVITY - 980,142.9 (mgal) NAVD 88
LC1289
LC1289 VERT ORDER - FIRST CLASS II
LC1289
LC1289 Network accuracy estimates per FGDC Geospatial Positioning Accuracy
LC1289 Standards:
LC1289 FGDC (95% conf, cm) Standard deviation (cm) CorrNE
LC1289 Horiz Ellip SD_N SD_E SD_h (unitless)
LC1289 ----------
LC1289 NETWORK 0.35 0.61 0.16 0.12 0.31 -0.02530962
LC1289 ----------
LC1289 Click here for local accuracies and other accuracy information.
LC1289
LC1289
LC1289.The horizontal coordinates were established by GPS observations
LC1289.and adjusted by the National Geodetic Survey in June 2012.
LC1289
LC1289.NAD 83(2011) refers to NAD 83 coordinates where the reference frame has
LC1289.been affixed to the stable North American tectonic plate. See
LC1289.NA2011 for more information.
LC1289
LC1289.The horizontal coordinates are valid at the epoch date displayed above
LC1289.which is a decimal equivalence of Year/Month/Day.
LC1289
LC1289.The orthometric height was determined by differential leveling and

LC1289.adjusted by the NATIONAL GEODETIC SURVEY
LC1289.in June 1991.
LC1289
LC1289.Significant digits in the geoid height do not necessarily reflect accuracy.
LC1289.GEOID18 height accuracy estimate available here.
LC1289
LC1289.Click photographs - Photos may exist for this station.
LC1289
LC1289.The X, Y, and Z were computed from the position and the ellipsoidal ht.
LC1289
LC1289.The Laplace correction was computed from DEFLEC18 derived deflections.
LC1289
LC1289.The ellipsoidal height was determined by GPS observations
LC1289.and is referenced to NAD 83.
LC1289
LC1289.The dynamic height is computed by dividing the NAVD 88
LC1289.geopotential number by the normal gravity value computed on the
LC1289.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
LC1289.degrees latitude (g = 980.6199 gals.).
LC1289
LC1289.The modeled gravity was interpolated from observed gravity values.
LC1289
LC1289. The following values were computed from the NAD 83(2011) position.
LC1289
LC1289;   North   East   Units Scale Factor Converg.
LC1289;SPC IL W   -   431,204.609   748,659.488   MT 0.99997031   +0 22 24.6
LC1289;SPC IL W   - 1,414,710.45 2,456,227.00   sFT 0.99997031   +0 22 24.6
LC1289;UTM 16   - 4,492,023.705   280,506.097   MT 1.00019306   -1 41 09.1
LC1289
LC1289!   - Elev Factor x Scale Factor =   Combined Factor
LC1289!SPC IL W   -   0.99997441 x   0.99997031 =   0.99994472
LC1289!UTM 16   -   0.99997441 x   1.00019306 =   1.00016747
LC1289
LC1289_U.S. NATIONAL GRID SPATIAL ADDRESS: 16TBK8050692023(NAD 83)
LC1289
LC1289   SUPERSEDED SURVEY CONTROL
LC1289
LC1289 NAD 83(2007)- 40 32 59.67073(N)   089 35 31.83244(W) AD(2002.00) 0
LC1289 ELLIP H (02/10/07) 163.111 (m)   GP(2002.00)
LC1289 ELLIP H (09/15/03) 163.111 (m)   GP(   ) 4 1
LC1289 NAD 83(1997)- 40 32 59.67062(N)   089 35 31.83211(W) AD(   ) B
LC1289 ELLIP H (07/17/98) 163.137 (m)   GP(   ) 4 1
LC1289 NAVD 88   195.97   (m)   642.9   (f) LEVELING   3
LC1289 NGVD 29 (??/??/92) 196.063 (m)   643.25   (f) ADJ UNCH   1 2
LC1289
LC1289.Superseded values are not recommended for survey control.
LC1289
LC1289.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.
LC1289.See file dsdata.pdf to determine how the superseded data were derived.
LC1289
LC1289_MARKER: DB = BENCH MARK DISK
LC1289_SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT
LC1289_STAMPING: Q 161 1954
LC1289_MARK LOGO: CGS

LC1289_PROJECTION: PROJECTING 18 CENTIMETERS
LC1289_MAGNETIC: N = NO MAGNETIC MATERIAL
LC1289_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO
LC1289+STABILITY: SURFACE MOTION
LC1289_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
LC1289+SATELLITE: SATELLITE OBSERVATIONS - July 20, 2020
LC1289
LC1289 HISTORY   - Date   Condition   Report By
LC1289 HISTORY   - 1954   MONUMENTED   CGS
LC1289 HISTORY   - 1975   GOOD   LOCENG
LC1289 HISTORY   - 19970425 GOOD   NGS
LC1289 HISTORY   - 20010501 GOOD   WOOLPT
LC1289 HISTORY   - 20020806 GOOD   CMT
LC1289 HISTORY   - 20020820 GOOD   NGS
LC1289 HISTORY   - 20080602 GOOD   INDIV
LC1289 HISTORY   - 20100501 GOOD   ILDT
LC1289 HISTORY   - 20200720 GOOD   ILDT
LC1289
LC1289   STATION DESCRIPTION
LC1289
LC1289'DESCRIBED BY COAST AND GEODETIC SURVEY 1954
LC1289'3.6 MI E FROM PEKIN.
LC1289'3.55 MILES EAST ALONG THE NEW YORK CENTRAL RAILROAD FROM THE
LC1289'FREIGHT STATION AT PEKIN, AT A FARM ROAD CROSSING, ABOUT 2 1/2
LC1289'POLES WEST OF MILE POST IND 199, 44 FEET NORTH OF NORTH RAIL, 51
LC1289'FEET NORTHEAST OF CENTER OF FARM ROAD CROSSING, 34 FEET EAST OF
LC1289'CENTER OF FARM ROAD, 3 FEET SOUTH OF A FENCE LINE, 2 FEET EAST
LC1289'OF A WHITE WOODEN WITNESS POST, ABOUT LEVEL WITH TRACK AND SET IN
LC1289'THE TOP OF A CONCRETE POST PROJECTING 4 INCHES.
LC1289
LC1289   STATION RECOVERY (1975)
LC1289
LC1289'RECOVERY NOTE BY LOCAL ENGINEER (INDIVIDUAL OR FIRM) 1975
LC1289'SET STEEL FENCE POST AND WITNESS SIGN 1 FOOT NORTH OF MONUMENT.
LC1289
LC1289   STATION RECOVERY (1997)
LC1289
LC1289'RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1997 (RKB)
LC1289'THE STATION IS LOCATED AT THE SOUTHEAST EDGE OF PEKIN AT A
LC1289'T-INTERSECTION OF POWER LINES IN A LARGE CULTIVATED FIELD, PROBABLY IN
LC1289'THE EASEMENT OF THE POWER COMPANY AS A TRACK ROAD ALONG POWER LINE
LC1289'ACCESSES THE STATION AND FARMER IS LEAVING AN ISLAND OF GRASS AT THE
LC1289'STATION. TO REACH FROM THE EASTERNMOST JUNCTION OF STATE ROUTES 9 AND
LC1289'29 IN PEKIN, GO SOUTHEAST ON ROUTE 9, COURT STREET, FOR 2.1 MI (3.4
LC1289'KM) TO ALLENTOWN ROAD AT THE PEKIN BIBLE CHURCH. ANGLE LEFT,
LC1289'SOUTHEAST, ON ALLENTOWN ROAD FOR 1.0 MI (1.6 KM) TO A POWER LINE AND A
LC1289'TRACK ROAD RIGHT, SOUTH. TURN RIGHT ON TRACK ROAD FOR 0.22 MI (0.35
LC1289'KM) TO A T-INTERSECTION OF POWER LINES AND THE STATION ON THE LEFT AT
LC1289'THE END OF TRACK ROAD, ABOUT 10.5 M (34.4 FT) EAST OF THE APPROXIMATE
LC1289'CENTER OF THE TRACK ROAD, 14.9 M (48.9 FT) EAST OF THE POWER POLE WITH
LC1289'FOUR GUY WIRES AT THE T-INTERSECTION, 42.2 M (138.5 FT)
LC1289'NORTH-NORTHEAST OF THE FIRST POWER POLE SOUTH OF THE T, 69.0 M (226.4
LC1289'FT) WEST OF THE FIRST POWER POLE EAST OF THE T, 33.9 M (111.2 FT)
LC1289'NORTHEAST OF THE NORTHERN OF TWO ORANGE PIPE MARKERS IN FIELD, 0.4 M

LC1289'(1.3 FT) SOUTH OF A METAL WITNESS POST, AND 0.3 M (1.0 FT) WEST OF A
LC1289'FIBERGLASS WITNESS POST. NOTE--THE STATION CAN ALSO BE REACHED FROM
LC1289'THE INTERSECTION OF ROUTE 9 AND COUNTY ROAD 1850E, JUST SOUTHEAST OF
LC1289'PEKIN AT THE BETHEL MENNONITE CHURCH IN THE SOUTHWEST ANGLE, BY GOING
LC1289'NORTH ON ROAD 1850E FOR 1.0 MI (1.6 KM) TO ALLENTOWN ROAD. TURN LEFT,
LC1289'WEST, FOR 0.75 MI (1.21 KM) TO THE TRACK ROAD ON THE LEFT.
LC1289
LC1289 STATION RECOVERY (2001)
LC1289
LC1289'RECOVERY NOTE BY WOOLPERT CONSULTANTS 2001 (ARL)
LC1289'RECOVERED AS DESCRIBED.
LC1289
LC1289 STATION RECOVERY (2002)
LC1289
LC1289'RECOVERY NOTE BY CRAWFORD MURPHY AND TILLY INC 2002 (KWS)
LC1289'RECOVERED IN GOOD CONDITION.
LC1289
LC1289 STATION RECOVERY (2002)
LC1289
LC1289'RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 2002 (JK)
LC1289'RECOVERED AS DESCRIBED
LC1289
LC1289 STATION RECOVERY (2008)
LC1289
LC1289'RECOVERY NOTE BY INDIVIDUAL CONTRIBUTORS 2008 (MPG)
LC1289'FOUND IN GOOD SHAPE, MONUMENT IS IN FIELD AND FARMED AROUND. THIS
LC1289'LOCATION MIGHT BE DIFFICULT TO FIND WHEN CROPS ARE UP. NO POST WAS
LC1289'AROUND THE MONUMENT.
LC1289
LC1289 STATION RECOVERY (2010)
LC1289
LC1289'RECOVERY NOTE BY ILLINOIS DEPARTMENT OF TRANSPORTATION 2010 (CW)
LC1289'RECOVERED AS DESCRIBED
LC1289
LC1289 STATION RECOVERY (2020)
LC1289
LC1289'RECOVERY NOTE BY ILLINOIS DEPARTMENT OF TRANSPORTATION 2020 (DL)
LC1289'SET A CARSONITE LATHE 1 FT (0.3 M) EAST OF STATION.

*** retrieval complete.
Elapsed Time = 00:00:06

DATASHEETS Data Sheet Retrieval
The NGS Data Sheet

See file dsdata.pdf for more information about the datasheet.
PROGRAM = datasheet95, VERSION = 8.12.5.14
Starting Datasheet Retrieval...
1 National Geodetic Survey, Retrieval Date = APRIL 21, 2022
LC1248 **********
LC1248 CBN - This is a Cooperative Base Network Control Station.
LC1248 DESIGNATION - Q 238
LC1248 PID - LC1248
LC1248 STATE/COUNTY- IL/TAZEWELL
LC1248 COUNTRY - US
LC1248 USGS QUAD - MANITO (2018)
LC1248
LC1248 *CURRENT SURVEY CONTROL
LC1248 _____
LC1248* NAD 83(2011) POSITION- 40 27 50.54848(N) 089 50 15.12051(W) ADJUSTED
LC1248* NAD 83(2011) ELLIP HT- 122.608 (meters) (06/27/12) ADJUSTED
LC1248* NAD 83(2011) EPOCH - 2010.00
LC1248* NAVD 88 ORTHO HEIGHT - 155.614 (meters) 510.54 (feet) ADJUSTED
LC1248 _____
LC1248 GEOID HEIGHT - -32.997 (meters) GEOID18
LC1248 NAD 83(2011) X - 13,779.521 (meters) COMP
LC1248 NAD 83(2011) Y - -4,859,501.127 (meters) COMP
LC1248 NAD 83(2011) Z - 4,117,402.343 (meters) COMP
LC1248 LAPLACE CORR - 1.27 (seconds) DEFLEC18
LC1248 DYNAMIC HEIGHT - 155.540 (meters) 510.30 (feet) COMP
LC1248 MODELED GRAVITY - 980,148.6 (mgal) NAVD 88
LC1248
LC1248 VERT ORDER - FIRST CLASS II
LC1248
LC1248 Network accuracy estimates per FGDC Geospatial Positioning Accuracy
LC1248 Standards:
LC1248 FGDC (95% conf, cm) Standard deviation (cm) CorrNE
LC1248 Horiz Ellip SD_N SD_E SD_h (unitless)
LC1248 ----------
LC1248 NETWORK 0.47 0.76 0.22 0.15 0.39 0.02138550
LC1248 ----------
LC1248 Click here for local accuracies and other accuracy information.
LC1248
LC1248
LC1248.The horizontal coordinates were established by GPS observations
LC1248.and adjusted by the National Geodetic Survey in June 2012.
LC1248
LC1248.NAD 83(2011) refers to NAD 83 coordinates where the reference frame has
LC1248.been affixed to the stable North American tectonic plate. See
LC1248.NA2011 for more information.
LC1248
LC1248.The horizontal coordinates are valid at the epoch date displayed above
LC1248.which is a decimal equivalence of Year/Month/Day.
LC1248
LC1248.The orthometric height was determined by differential leveling and

LC1248.adjusted by the NATIONAL GEODETIC SURVEY
LC1248.in June 1991.
LC1248
LC1248.Significant digits in the geoid height do not necessarily reflect accuracy.
LC1248.GEOID18 height accuracy estimate available here.
LC1248
LC1248.Click photographs - Photos may exist for this station.
LC1248
LC1248.The X, Y, and Z were computed from the position and the ellipsoidal ht.
LC1248
LC1248.The Laplace correction was computed from DEFLEC18 derived deflections.
LC1248
LC1248.The ellipsoidal height was determined by GPS observations
LC1248.and is referenced to NAD 83.
LC1248
LC1248.The dynamic height is computed by dividing the NAVD 88
LC1248.geopotential number by the normal gravity value computed on the
LC1248.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
LC1248.degrees latitude (g = 980.6199 gals.).
LC1248
LC1248.The modeled gravity was interpolated from observed gravity values.
LC1248
LC1248. The following values were computed from the NAD 83(2011) position.
LC1248
LC1248;   North   East   Units Scale Factor Converg.
LC1248;SPC IL W   -   421,563.517   727,913.158   MT 0.99995076   +0 12 49.0
LC1248;SPC IL W   - 1,383,079.64 2,388,161.75   sFT 0.99995076   +0 12 49.0
LC1248;UTM 16   - 4,483,131.132   259,420.820   MT 1.00031250   -1 50 32.5
LC1248
LC1248!   - Elev Factor x Scale Factor =   Combined Factor
LC1248!SPC IL W   -   0.99998077 x   0.99995076 =   0.99993153
LC1248!UTM 16   -   0.99998077 x   1.00031250 =   1.00029326
LC1248
LC1248_U.S. NATIONAL GRID SPATIAL ADDRESS: 16TBK5942083131(NAD 83)
LC1248
LC1248   SUPERSEDED SURVEY CONTROL
LC1248
LC1248 NAD 83(2007)- 40 27 50.54924(N)   089 50 15.12148(W) AD(2002.00) 0
LC1248 ELLIP H (02/10/07) 122.587 (m)   GP(2002.00)
LC1248 ELLIP H (10/15/04) 122.590 (m)   GP(   ) 4 2
LC1248 NAD 83(1997)- 40 27 50.54846(N)   089 50 15.12105(W) AD(   ) B
LC1248 ELLIP H (07/17/98) 122.609 (m)   GP(   ) 4 1
LC1248 NAVD 88   155.61   (m)   510.5   (f) LEVELING   3
LC1248 NGVD 29 (??/??/92) 155.717 (m)   510.88   (f) ADJ UNCH   1 2
LC1248
LC1248.Superseded values are not recommended for survey control.
LC1248
LC1248.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.
LC1248.See file dsdata.pdf to determine how the superseded data were derived.
LC1248
LC1248_MARKER: DB = BENCH MARK DISK
LC1248_SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT
LC1248_STAMPING: Q 238 1961
LC1248_MARK LOGO: CGS

LC1248_MAGNETIC: N = NO MAGNETIC MATERIAL
LC1248_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO
LC1248+STABILITY: SURFACE MOTION
LC1248_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
LC1248+SATELLITE: SATELLITE OBSERVATIONS - October 17, 2011
LC1248
LC1248 HISTORY - Date Condition Report By
LC1248 HISTORY - 1961 MONUMENTED CGS
LC1248 HISTORY - 19970429 GOOD NGS
LC1248 HISTORY - 20021122 GOOD DUCKS
LC1248 HISTORY - 20040517 GOOD ILDT
LC1248 HISTORY - 20090506 GOOD IL-057
LC1248 HISTORY - 20100501 GOOD ILDT
LC1248 HISTORY - 20111017 GOOD ATKNA
LC1248
LC1248 STATION DESCRIPTION
LC1248
LC1248'DESCRIBED BY COAST AND GEODETIC SURVEY 1961
LC1248'5.5 MI NW FROM MANITO.
LC1248'ABOUT 0.05 MILE WEST ALONG A STREET FROM THE CHICAGO AND ILLINOIS
LC1248'MIDLAND RAILWAY STATION AT MANITO, THENCE 2.65 MILES NORTH ALONG A
LC1248'BLACK TOP ROAD, THENCE 2.8 MILES WEST ALONG A BLACK TOP ROAD,
LC1248'38 1/2 FEET SOUTH OF THE CENTER LINE OF THE BLACK TOP ROAD, 93
LC1248'FEET WEST OF THE CENTER LINE OF A DIRT ROAD, 35.2 FEET WEST OF A
LC1248'CONCRTE HIGHWAY RIGHT-OF-WAY MARKER, 175 FEET SOUTHEAST AND ACROSS
LC1248'THE BLACK TOP ROAD FROM THE SOUTHEAST CORNER OF THE FORMER STAR
LC1248'SCHOOL (ABANDONED), 1.2 FEET NORTH OF A FENCE LINE, 3 FEET WEST
LC1248'OF A METAL WITNESS POST, 1 FOOT BELOW THE LEVEL OF THE BLACK TOP
LC1248'ROAD, SET IN THE TOP OF A CONCRETE POST PROJECTING 1 INCH ABOVE
LC1248'THE LEVEL OF THE GROUND.
LC1248
LC1248 STATION RECOVERY (1997)
LC1248
LC1248'RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1997 (RKB)
LC1248'THE STATION IS LOCATED ABOUT 4 MI (6.4 KM) NORTHWEST OF MANITO. TO
LC1248'REACH FROM THE POST OFFICE ON MARKET STREET IN THE BUSINESS DISTRICT
LC1248'OF MANITO, GO NORTHWEST ON MARKET STREET FOR 0.14 MI (0.23 KM) TO
LC1248'ADAMS STREET. TURN RIGHT, NORTHEAST THEN NORTH FOR 2.6 MI (4.2 KM) TO
LC1248'SPRING LAKE ROAD (10000N). TURN LEFT, WEST, FOR 2.8 MI (4.5 KM) TO
LC1248'THE INTERSECTION WITH FORNOFF ROAD (4500E) AND THE STATION ON THE LEFT
LC1248'IN THE SOUTHWEST ANGLE, 11.7 M (38.4 FT) SOUTH OF THE CENTER OF SPRING
LC1248'LAKE ROAD, 28.3 M (92.8 FT) WEST OF THE CENTER OF FARNOFF ROAD, 9.9 M
LC1248'(32.5 FT) WEST OF A CONCRETE RIGHT-OF-WAY MARKER AND SPLICE BOX FOR
LC1248'UNDERGROUND TELEPHONE CABLE, 19.2 M (63.0 FT) WEST OF A GUY POLE, 0.4
LC1248'M (1.3 FT) NORTH OF A FENCE LINE, 1.0 M (3.3 FT) WEST OF A METAL
LC1248'WITNESS POST, AND 0.4 M (1.3 FT) NORTH OF A FIBERGLASS WITNESS POST.
LC1248
LC1248 STATION RECOVERY (2002)
LC1248
LC1248'RECOVERY NOTE BY DUCKS UNLIMITED 2002 (GHB)
LC1248'RECOVERED AS DESCRIBED
LC1248
LC1248 STATION RECOVERY (2004)
LC1248

LC1248'RECOVERY NOTE BY ILLINOIS DEPARTMENT OF TRANSPORTATION 2004
LC1248'RECOVERED IN GOOD CONDITION.
LC1248
LC1248 STATION RECOVERY (2009)
LC1248
LC1248'RECOVERY NOTE BY FULTON COUNTY ILLINOIS 2009 (DEW)
LC1248'RECOVERED AS DESCRIBED
LC1248
LC1248 STATION RECOVERY (2010)
LC1248
LC1248'RECOVERY NOTE BY ILLINOIS DEPARTMENT OF TRANSPORTATION 2010 (CW)
LC1248'RECOVERED AS DESCRIBED
LC1248
LC1248 STATION RECOVERY (2011)
LC1248
LC1248'RECOVERY NOTE BY ATKINS NORTH AMERICA INC 2011 (DWD)
LC1248'RECOVERED IN GOOD CONDITION.

*** retrieval complete.
Elapsed Time = 00:00:04

DATASHEETS Data Sheet Retrieval
The NGS Data Sheet

See file dsdata.pdf for more information about the datasheet.
PROGRAM = datasheet95, VERSION = 8.12.5.14
Starting Datasheet Retrieval...
1 National Geodetic Survey, Retrieval Date = APRIL 21, 2022
MF0780 **********
MF0780 CBN - This is a Cooperative Base Network Control Station.
MF0780 DESIGNATION - U 232
MF0780 PID - MF0780
MF0780 STATE/COUNTY- IL/PUTNAM
MF0780 COUNTRY - US
MF0780 USGS QUAD - PUTNAM (2018)
MF0780
MF0780 *CURRENT SURVEY CONTROL
MF0780 _____
MF0780* NAD 83(2011) POSITION- 41 11 06.27318(N) 089 23 44.01531(W) ADJUSTED
MF0780* NAD 83(2011) ELLIP HT- 123.857 (meters) (06/27/12) ADJUSTED
MF0780* NAD 83(2011) EPOCH - 2010.00
MF0780* NAVD 88 ORTHO HEIGHT - 156.988 (meters) 515.05 (feet) ADJUSTED
MF0780 _____
MF0780 GEOID HEIGHT - -33.125 (meters) GEOID18
MF0780 NAD 83(2011) X - 50,712.212 (meters) COMP
MF0780 NAD 83(2011) Y - -4,806,907.242 (meters) COMP
MF0780 NAD 83(2011) Z - 4,177,995.052 (meters) COMP
MF0780 LAPLACE CORR - 0.25 (seconds) DEFLEC18
MF0780 DYNAMIC HEIGHT - 156.921 (meters) 514.83 (feet) COMP
MF0780 MODELED GRAVITY - 980,199.9 (mgal) NAVD 88
MF0780
MF0780 VERT ORDER - FIRST CLASS II
MF0780
MF0780 Network accuracy estimates per FGDC Geospatial Positioning Accuracy
MF0780 Standards:
MF0780 FGDC (95% conf, cm) Standard deviation (cm) CorrNE
MF0780 Horiz Ellip SD_N SD_E SD_h (unitless)
MF0780 ----------
MF0780 NETWORK 0.70 1.22 0.31 0.26 0.62 -0.01891907
MF0780 ----------
MF0780 Click here for local accuracies and other accuracy information.
MF0780
MF0780
MF0780.The horizontal coordinates were established by GPS observations
MF0780.and adjusted by the National Geodetic Survey in June 2012.
MF0780
MF0780.NAD 83(2011) refers to NAD 83 coordinates where the reference frame has
MF0780.been affixed to the stable North American tectonic plate. See
MF0780.NA2011 for more information.
MF0780
MF0780.The horizontal coordinates are valid at the epoch date displayed above
MF0780.which is a decimal equivalence of Year/Month/Day.
MF0780
MF0780.The orthometric height was determined by differential leveling and

MF0780.adjusted by the NATIONAL GEODETIC SURVEY
MF0780.in June 1991.
MF0780
MF0780.Significant digits in the geoid height do not necessarily reflect accuracy.
MF0780.GEOID18 height accuracy estimate available here.
MF0780
MF0780.Click photographs - Photos may exist for this station.
MF0780
MF0780.The X, Y, and Z were computed from the position and the ellipsoidal ht.
MF0780
MF0780.The Laplace correction was computed from DEFLEC18 derived deflections.
MF0780
MF0780.The ellipsoidal height was determined by GPS observations
MF0780.and is referenced to NAD 83.
MF0780
MF0780.The dynamic height is computed by dividing the NAVD 88
MF0780.geopotential number by the normal gravity value computed on the
MF0780.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
MF0780.degrees latitude (g = 980.6199 gals.).
MF0780
MF0780.The modeled gravity was interpolated from observed gravity values.
MF0780
MF0780. The following values were computed from the NAD 83(2011) position.
MF0780
MF0780;   North   East   Units Scale Factor Converg.
MF0780;SPC IL W   -   501,864.715   764,691.861   MT 0.99999266   +0 30 28.0
MF0780;SPC IL W   - 1,646,534.49 2,508,826.55   sFT 0.99999266   +0 30 28.0
MF0780;UTM 16   - 4,562,069.201   299,086.479   MT 1.00009682   -1 34 40.8
MF0780
MF0780!   - Elev Factor x Scale Factor =   Combined Factor
MF0780!SPC IL W   -   0.99998057 x   0.99999266 =   0.99997323
MF0780!UTM 16   -   0.99998057 x   1.00009682 =   1.00007739
MF0780
MF0780_U.S. NATIONAL GRID SPATIAL ADDRESS: 16TBL9908662069(NAD 83)
MF0780
MF0780   SUPERSEDED SURVEY CONTROL
MF0780
MF0780 NAD 83(2007)- 41 11 06.27311(N)   089 23 44.01611(W) AD(2002.00) 0
MF0780 ELLIP H (02/10/07) 123.893 (m)   GP(2002.00)
MF0780 ELLIP H (10/15/04) 123.861 (m)   GP(   ) 4 2
MF0780 NAD 83(1997)- 41 11 06.27288(N)   089 23 44.01554(W) AD(   ) B
MF0780 ELLIP H (07/17/98) 123.891 (m)   GP(   ) 4 1
MF0780 NAVD 88   156.99   (m)   515.1   (f) LEVELING   3
MF0780 NGVD 29 (??/??/92) 157.061 (m)   515.29   (f) ADJ UNCH   1 2
MF0780
MF0780.Superseded values are not recommended for survey control.
MF0780
MF0780.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.
MF0780.See file dsdata.pdf to determine how the superseded data were derived.
MF0780
MF0780_MARKER: DB = BENCH MARK DISK
MF0780_SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT
MF0780_STAMPING: U 232 1960
MF0780_MARK LOGO: CGS

MF0780_PROJECTION: FLUSH
MF0780_MAGNETIC: N = NO MAGNETIC MATERIAL
MF0780_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO
MF0780+STABILITY: SURFACE MOTION
MF0780_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
MF0780+SATELLITE: SATELLITE OBSERVATIONS - October 30, 2011
MF0780
MF0780 HISTORY - Date Condition Report By
MF0780 HISTORY - 1960 MONUMENTED CGS
MF0780 HISTORY - 19960821 GOOD SECI
MF0780 HISTORY - 19970426 GOOD NGS
MF0780 HISTORY - 19970903 GOOD USPSQD
MF0780 HISTORY - 200205 GOOD ASCPC
MF0780 HISTORY - 20080605 GOOD GEOCAC
MF0780 HISTORY - 20111030 GOOD ATKNA
MF0780
MF0780 STATION DESCRIPTION
MF0780
MF0780'DESCRIBED BY COAST AND GEODETIC SURVEY 1960
MF0780'AT PUTNAM.
MF0780'AT PUTNAM, ABOUT 0.1 MILE NORTH ALONG CHICAGO, ROCK ISLAND
MF0780'AND PACIFIC RAILROAD FROM THE STATION, IN SECTION 19, R 10 E,
MF0780'T 14 N, AT CROSSING OF AN EAST-WEST BLACK TOP ROAD, 66 YARDS
MF0780'NORTH OF MILE POST 122, 31 FEET NORTH OF CENTER LINE OF ROAD,
MF0780'48 FEET EAST OF EAST RAIL, 33 FEET EAST-NORTHEAST OF CROSSING
MF0780'WARNING SIGNAL, 3 FEET SOUTHWEST OF A FENCE CORNER, 2 FEET
MF0780'SOUTHWEST OF A HIGHWAY R/W MARKER, 2 FEET WEST-SOUTHWEST OF
MF0780'PROJECT MARKER NO. S 4741, 3 1/2 FEET NORTH-NORTHWEST OF
MF0780'TELEPHONE BRACE POLE, ABOUT LEVEL WITH CROSSING AND SET IN
MF0780'THE TOP OF A CONCRETE POST PROJECTING 3 INCHES.
MF0780
MF0780 STATION RECOVERY (1996)
MF0780
MF0780'RECOVERY NOTE BY SMITH ENG CONS INC 1996 (MGR)
MF0780'RECOVERED AS DESCRIBED. TO REACH FROM THE JUNCTION OF INTERSTATE
MF0780'ROUTE 180 AND ILLINOIS ROUTE 29, PROCEED SOUTH ON ILLINOIS ROUTE 29 TO
MF0780'THE TOWN OF SENACHWINE, ILLINOIS, PROCEED TO THE INTERSECTION OF
MF0780'ILLINOIS ROUTE 29 AND SENACHWINE LAKE ROAD, TURN LEFT (EAST) ONTO
MF0780'SENACHWINE LAKE ROAD FOR 0.05 MI (0.08 KM) TO THE STATION ON THE LEFT
MF0780'(NORTH) SIDE OF SENACHWINE LAKE ROAD. THE STATION IS AT THE SOUTHWEST
MF0780'CORNER OF A CHAIN LINK FENCE THAT RUNS NORTH AND EAST FOR A GAS PIPING
MF0780'MAINTANCE STATION. THE STATION IS LOCATED 31.9 FT (9.7 M) NORTH OF
MF0780'THE CENTERLINE OF SENACHWINE LAKE ROAD, 215 FT (65.5 M) EAST OF THE
MF0780'CENTERLINE OF ILLINOIS ROUTE 29, 53.8 FT (16.4 M) EAST OF THE
MF0780'CENTERLINE OF THE RAILROAD TRACKS, 2.4 FT (0.7 M) SOUTHWEST OF A
MF0780'CONCRETE R.O.W. MARKER, 3.0 FT (0.9 M) SOUTHWEST OF A FENCE CORNER
MF0780'(TO THE GAS PIPING MAINTANCE STATION) THAT RUNS NORTH AND EAST, 2.2 FT
MF0780'(0.7 M) SOUTHWEST OF A CONCRETE MARKER STAMPED S4741, 16.1 FT (4.9 M)
MF0780'WEST OF A POWER POLE, 185 FT (56.4 M) WEST OF THE CENTERLINE OF CONDIT
MF0780'STREET, AND 74.5 FT (22.7 M) NORTHWEST OF A CONCRETE R.O.W. MARKER.
MF0780
MF0780 STATION RECOVERY (1997)
MF0780
MF0780'RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1997 (RKB)

MF0780'THE STATION IS LOCATED IN THE NORTHWEST PART OF THE SMALL TOWN OF
MF0780'PUTNAM, AT THE FIRST RAILROAD CROSSING NORTH OF THE GRAIN ELEVATOR,
MF0780'NEAR THE SOUTHWEST CORNER OF A SMALL CHAIN LINK FENCE ENCLOSURE FOR A
MF0780'CILCO GAS FACILITY BEARING A SIGN CILCO X-316, ABOUT 60 M (196.8 FT)
MF0780'EAST OF STATE ROUTE 29, ABOUT 60 M (196.8 FT) NORTH OF RAILROAD
MF0780'MILEPOST 122, 9.4 M (30.8 FT) NORTH OF THE CENTER OF A CROSSING ROAD,
MF0780'14.6 M (47.9 FT) EAST OF THE EAST RAIL, 10.0 M (32.8 FT)
MF0780'EAST-NORTHEAST OF CROSSING WARNING SIGNAL, 1.0 M (3.3 FT) SOUTHWEST OF
MF0780'A FENCE CORNER, 0.6 M (2.0 FT) SOUTHWEST OF A RIGHT-OF-WAY MARKER, AND
MF0780'0.6 M (2.0 FT) WEST-SOUTHWEST OF PROJECT MARKER NO. S 4741.
MF0780
MF0780 STATION RECOVERY (1997)
MF0780
MF0780'RECOVERY NOTE BY US POWER SQUADRON 1997
MF0780'RECOVERED IN GOOD CONDITION.
MF0780
MF0780 STATION RECOVERY (2002)
MF0780
MF0780'RECOVERY NOTE BY AMERICAN SURVEYING CONSULTANTS PC 2002
MF0780'RECOVERED AS DESCRIBED
MF0780
MF0780 STATION RECOVERY (2008)
MF0780
MF0780'RECOVERY NOTE BY GEOCACHING 2008 (BPS)
MF0780'RECOVERED IN GOOD CONDITION.
MF0780
MF0780 STATION RECOVERY (2011)
MF0780
MF0780'RECOVERY NOTE BY ATKINS NORTH AMERICA INC 2011 (DWD)
MF0780'THIS STATION WAS RECOVERED AS PART OF THE NATIONAL LEVEE DATABASE
MF0780'INVENTORY FOR THE ROCK ISLAND MILITARY DISTRICT OF THE UNITED STATES
MF0780'ARMY CORPS OF ENGINEERS.

*** retrieval complete.
Elapsed Time = 00:00:04

DATASHEETS Data Sheet Retrieval
The NGS Data Sheet

See file dsdata.pdf for more information about the datasheet.
PROGRAM = datasheet95, VERSION = 8.12.5.14
Starting Datasheet Retrieval...
1 National Geodetic Survey, Retrieval Date = APRIL 21, 2022
LC0480 **********
LC0480 FBN - This is a Federal Base Network Control Station.
LC0480 DESIGNATION - WAPELLA ECC
LC0480 PID - LC0480
LC0480 STATE/COUNTY- IL/DE WITT
LC0480 COUNTRY - US
LC0480 USGS QUAD - CLINTON (2018)
LC0480
LC0480 *CURRENT SURVEY CONTROL
LC0480 _____
LC0480* NAD 83(2011) POSITION- 40 13 16.60900(N) 088 57 45.01682(W) ADJUSTED
LC0480* NAD 83(2011) ELLIP HT- 195.326 (meters) (06/27/12) ADJUSTED
LC0480* NAD 83(2011) EPOCH - 2010.00
LC0480* NAVD 88 ORTHO HEIGHT - 227.458 (meters) 746.25 (feet) ADJUSTED
LC0480 _____
LC0480 GEOID HEIGHT - -32.141 (meters) GEOID18
LC0480 NAD 83(2011) X - 88,306.962 (meters) COMP
LC0480 NAD 83(2011) Y - -4,876,227.446 (meters) COMP
LC0480 NAD 83(2011) Z - 4,096,903.057 (meters) COMP
LC0480 LAPLACE CORR - 2.68 (seconds) DEFLEC18
LC0480 DYNAMIC HEIGHT - 227.343 (meters) 745.87 (feet) COMP
LC0480 MODELED GRAVITY - 980,118.3 (mgal) NAVD 88
LC0480
LC0480 VERT ORDER - FIRST CLASS I
LC0480
LC0480 Network accuracy estimates per FGDC Geospatial Positioning Accuracy
LC0480 Standards:
LC0480 FGDC (95% conf, cm) Standard deviation (cm) CorrNE
LC0480 Horiz Ellip SD_N SD_E SD_h (unitless)
LC0480 ----------
LC0480 NETWORK 0.55 1.18 0.25 0.19 0.60 -0.04442474
LC0480 ----------
LC0480 Click here for local accuracies and other accuracy information.
LC0480
LC0480
LC0480.The horizontal coordinates were established by GPS observations
LC0480.and adjusted by the National Geodetic Survey in June 2012.
LC0480
LC0480.NAD 83(2011) refers to NAD 83 coordinates where the reference frame has
LC0480.been affixed to the stable North American tectonic plate. See
LC0480.NA2011 for more information.
LC0480
LC0480.The horizontal coordinates are valid at the epoch date displayed above
LC0480.which is a decimal equivalence of Year/Month/Day.
LC0480
LC0480.The orthometric height was determined by differential leveling and

LC0480.adjusted by the NATIONAL GEODETIC SURVEY
LC0480.in June 1991.
LC0480
LC0480.Significant digits in the geoid height do not necessarily reflect accuracy.
LC0480.GEOID18 height accuracy estimate available here.
LC0480
LC0480.Click photographs - Photos may exist for this station.
LC0480
LC0480.The X, Y, and Z were computed from the position and the ellipsoidal ht.
LC0480
LC0480.The Laplace correction was computed from DEFLEC18 derived deflections.
LC0480
LC0480.The ellipsoidal height was determined by GPS observations
LC0480.and is referenced to NAD 83.
LC0480
LC0480.The dynamic height is computed by dividing the NAVD 88
LC0480.geopotential number by the normal gravity value computed on the
LC0480.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
LC0480.degrees latitude (g = 980.6199 gals.).
LC0480
LC0480.The modeled gravity was interpolated from observed gravity values.
LC0480
LC0480. The following values were computed from the NAD 83(2011) position.
LC0480
LC0480; North East Units Scale Factor Converg.
LC0480;SPC IL E - 394,759.816 246,447.619 MT 1.00001029 -0 24 22.6
LC0480;SPC IL E - 1,295,141.16 808,553.56 sFT 1.00001029 -0 24 22.6
LC0480;UTM 16 - 4,454,164.690 333,017.687 MT 0.99994325 -1 16 03.2
LC0480
LC0480! - Elev Factor x Scale Factor = Combined Factor
LC0480!SPC IL E - 0.99996936 x 1.00001029 = 0.99997965
LC0480!UTM 16 - 0.99996936 x 0.99994325 = 0.99991261
LC0480
LC0480: Primary Azimuth Mark Grid Az
LC0480:SPC IL E - WAPELLA ECC AZ MK 353 56 57.9
LC0480:UTM 16 - WAPELLA ECC AZ MK 354 48 38.5
LC0480
LC0480_U.S. NATIONAL GRID SPATIAL ADDRESS: 16TCK3301754164(NAD 83)
LC0480
LC0480|----------|
LC0480| PID Reference Object Distance Geod. Az |
LC0480| dddmmss.s |
LC0480| LC0479 WAPELLA ECC RM 1 35.613 METERS 03317 |
LC0480| LC0481 WAPELLA ECC RM 2 42.520 METERS 14023 |
LC0480| LC0482 WAPELLA RM 67.056 METERS 16152 |
LC0480| LC1809 CLINTON ICRR REPAIR SHOPS STK APPROX. 7.3 KM 1693241.0 |
LC0480| LC0483 WAPELLA 67.585 METERS 17638 |
LC0480| LC1807 CLINTON ILLINOIS POWER CO STK APPROX. 7.4 KM 1781226.9 |
LC0480| LC1808 CLINTON DEWITT CO CTHSE FINIAL APPROX. 7.6 KM 1784400.1 |
LC0480| LC0478 WAPELLA ECC AZ MK 3533235.3 |
LC0480|----------|
LC0480
LC0480 SUPERSEDED SURVEY CONTROL
LC0480

LC0480 NAD 83(2007)- 40 13 16.60898(N)   088 57 45.01766(W) AD(2002.00) 0
LC0480 ELLIP H (02/10/07) 195.341 (m)   GP(2002.00)
LC0480 ELLIP H (09/15/03) 195.356 (m)   GP(   ) 4 1
LC0480 NAD 83(1997)- 40 13 16.60904(N)   088 57 45.01746(W) AD(   ) B
LC0480 ELLIP H (07/17/98) 195.342 (m)   GP(   ) 4 1
LC0480 NAD 83(1986)- 40 13 16.61882(N)   088 57 45.01786(W) AD(   ) 1
LC0480 NAD 27   - 40 13 16.48660(N)   088 57 44.72850(W) AD(   ) 1
LC0480 NAVD 88 (09/15/03) 227.5   (m) UNKNOWN model used   GPS OBS
LC0480 NAVD 88   227.46   (m)   746.3   (f) LEVELING   3
LC0480 NGVD 29 (??/??/92) 227.532 (m)   746.49   (f) ADJ UNCH   1 1
LC0480 NGVD 29   227.53   (m)   746.5   (f) LEVELING   3
LC0480
LC0480.Superseded values are not recommended for survey control.
LC0480
LC0480.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.
LC0480.See file dsdata.pdf to determine how the superseded data were derived.
LC0480
LC0480_MARKER: DS = TRIANGULATION STATION DISK
LC0480_SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT
LC0480_STAMPING: WAPELLA ECC 1934
LC0480_MARK LOGO: CGS
LC0480_PROJECTION: FLUSH
LC0480_MAGNETIC: N = NO MAGNETIC MATERIAL
LC0480_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO
LC0480+STABILITY: SURFACE MOTION
LC0480_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
LC0480+SATELLITE: SATELLITE OBSERVATIONS - May 25, 2016
LC0480
LC0480 HISTORY   - Date   Condition   Report By
LC0480 HISTORY   - 1934   MONUMENTED   CGS
LC0480 HISTORY   - 1969   GOOD   CGS
LC0480 HISTORY   - 1969   GOOD   CGS
LC0480 HISTORY   - 1973   GOOD   ILDT
LC0480 HISTORY   - 1976   GOOD   NGS
LC0480 HISTORY   - 1976   GOOD   NGS
LC0480 HISTORY   - 19970419 GOOD   NGS
LC0480 HISTORY   - 20001229 GOOD   ZAMBRA
LC0480 HISTORY   - 20010501 GOOD   WOOLPT
LC0480 HISTORY   - 20020819 GOOD   NGS
LC0480 HISTORY   - 20040927 GOOD   ILDT
LC0480 HISTORY   - 20131104 GOOD   ILGS
LC0480 HISTORY   - 20140114 GOOD   AMESC
LC0480 HISTORY   - 20160525 GOOD   COMPDA
LC0480
LC0480   STATION DESCRIPTION
LC0480
LC0480'DESCRIBED BY COAST AND GEODETIC SURVEY 1934 (CAS)
LC0480'STATION IS ABOUT 5 MILES N OF CLINTON, IN THE TOWN OF WAPELLA,
LC0480'ON THE ILLINOIS CENTRAL RR RIGHT-OF-WAY, 32 FEET E OF THE
LC0480'E RAIL OF THE MAIN TRACK, 55 FEET W OF A 30-INCH ELM, 57
LC0480'FEET WSW OF A 20-INCH ELM, 153 FEET N OF THE N END OF THE
LC0480'WAPELLA RR STATION, AND PROJECTS 8 INCHES.
LC0480'
LC0480'SURFACE, UNDERGROUND, REFERENCE AND AZIMUTH MARKS ARE STANDARD

LC0480'BRONZE DISKS SET IN CONCRETE.
LC0480'
LC0480'REFERENCE MARK NO. 1 (1934) IS 116.84 FEET NE OF STATION,
LC0480'15 FEET S OF A 24-INCH MAPLE, 25 FEET W OF CENTER LINE OF
LC0480'STREET, AND PROJECTS 8 INCHES. REFERENCE MARK NO. 2 (1934)
LC0480'IS 139.50 FEET SSE OF STATION, 11 FEET S OF 36-INCH COTTONWOOD
LC0480'TREE, 23 FEET ENE OF 36-INCH ELM, 27 FEET W OF CENTER LINE
LC0480'OF STREET, 206.67 FEET S OF REFERENCE MARK NO. 1, AND 103.65
LC0480'FEET NNE OF REFERENCE MARK (1920).
LC0480'
LC0480'AZIMUTH MARK IS ABOUT 0.3 MILE N OF STATION, 29 FEET E OF
LC0480'THE E RAIL OF THE MAIN TRACK OF THE ILLINOIS CENTRAL RR,
LC0480'32 FEET S OF CENTER LINE OF E-W ROAD, AND PROJECTS 6 INCHES.
LC0480'
LC0480'WAPELLA (1920) IS 221.74 FEET S OF STATION, EMBEDDED IN
LC0480'THE CONCRETE SIDEWALK, 2.62 FEET S OF ITS N EDGE, AND
LC0480'6.46 FEET E OF THE E AND NEAREST RAIL. IT IS A STANDARD
LC0480'U.S.C. AND G.S. TRIANGULATION-STATION MARKER EMBEDDED FLUSH
LC0480'INTO THE CONCRETE WALK.
LC0480'
LC0480'R.M. (1920) IS 220.00 FEET SSE OF STATION, 56.80
LC0480'FEET ENE OF WAPELLA (1920), 11 FEET N OF A TRANSMISSION
LC0480'POLE, 3.5 FEET N OF N EDGE OF SIDEWALK, AND PROJECTS 2 INCHES.
LC0480'
LC0480'HEIGHT OF LIGHT ABOVE STATION MARK - 113 FEET.
LC0480
LC0480 STATION RECOVERY (1969)
LC0480
LC0480'RECOVERY NOTE BY COAST AND GEODETIC SURVEY 1969 (JGC)
LC0480'THE STATION MARK, STAMPED WAPELLA ECC 1934 IS ABOUT 4.7 MILES
LC0480'NORTH ALONG THE ILLINOIS CENTRAL RAILROAD FROM THE STATION
LC0480'AT CLINTON, 138 YARDS NORTHWEST OF THE NORTHWEST CORNER OF
LC0480'THE POST OFFICE AT WAPELLA, 6-1/2 RAILS NORTH OF THE CENTER
LC0480'OF A CROSSING OF THE RAILROAD AND MAIN STREET, 265 FEET SOUTH
LC0480'OF MILEPOST 778, 100 FEET WEST OF THE CENTER LINE OF A PAVED
LC0480'STREET, 30 FEET EAST OF THE EAST RAIL OF THE MAIN TRACK, 139.50
LC0480'FEET NORTHWEST OF R.M. 2, 116.84 FEET SOUTHWEST OF R.M. 1,
LC0480'221.74 FEET NORTH OF WAPELLA 1920, 220.00 FEET NORTHWEST OF
LC0480'R.M. WAPELLA, 1.5 FEET WEST OF A METAL WITNESS POST, ABOUT
LC0480'1-1/2 FEET BELOW THE LEVEL OF THE TRACK, AND SET IN THE
LC0480'TOP OF A CONCRETE POST WHICH PROJECTS 5 INCHES ABOVE THE
LC0480'SURFACE OF THE GROUND.
LC0480'
LC0480'R.M. 1, STAMPED WAPELLA ECC NO 1 1934 IS 116.84 FEET NORTHEAST
LC0480'OF THE STATION MARK, 0.05 MILE NORTH OF THE POST OFFICE
LC0480'AT WAPELLA, 345 FEET NORTH OF THE CENTER LINE OF MAIN STREET,
LC0480'200 FEET SOUTHEAST OF MILEPOST 778, 105 FEET EAST OF THE
LC0480'EAST RAIL OF THE MAIN TRACK, 26-1/2 FEET WEST OF THE CENTER
LC0480'LINE OF A PAVED STREET, 2.0 FEET NORTH OF A METAL WITNESS
LC0480'POST, ABOUT 2-1/2 FEET BELOW THE LEVEL OF THE TRACK, AND
LC0480'SET IN THE TOP OF A CONCRETE POST WHICH PROJECTS 6 INCHES.
LC0480'
LC0480'R.M. 2, STAMPED WAPELLA ECC NO 2 1934 IS 139.50 FEET SOUTHEAST OF
LC0480'THE STATION MARK, 92 YARDS NORTHWEST AND ACROSS MAIN STREET

LC0480'FROM THE NORTHWEST CORNER OF THE POST OFFICE AT WAPELLA, 138
LC0480'FEET NORTH OF THE CENTER LINE OF THE STREET, 107 FEET EAST
LC0480'OF THE EAST RAIL OF THE MAIN TRACK, 22 FEET WEST OF THE CENTER
LC0480'LINE OF A PAVED STREET, 110-1/2 FEET NORTH OF A FIRE HYDRANT,
LC0480'10 FEET SOUTH OF A 36-INCH COTTONWOOD TREE, ABOUT 2 FEET ABOVE
LC0480'THE LEVEL OF THE TRACK, ABOUT 1 FOOT BELOW THE LEVEL OF THE
LC0480'PAVED STREET, AND SET IN THE TOP OF A CONCRETE POST WHICH
LC0480'PROJECTS 4 INCHES ABOVE THE SURFACE OF THE GROUND.
LC0480'
LC0480'THE AZIMUTH MARK, STAMPED WAPELLA ECC AZIMUTH 1934 IS 0.3 MILE NORTH
LC0480'ALONG THE ILLINOIS CENTRAL RAILROAD FROM THE STATION MARK, 0.25 MILE
LC0480'NORTH OF MILEPOST 778, 46 FEET SOUTHEAST OF THE CENTER OF A
LC0480'CROSSING OF THE RAILROAD AND A PAVED ROAD, 30 FEET EAST OF THE EAST
LC0480'RAIL, 33-1/2 FEET SOUTH OF THE CENTER LINE OF THE ROAD, 82-1/2
LC0480'FEET NORTH-NORTHWEST OF A TELEPHONE POLE, 1.4 FEET NORTH OF
LC0480'A METAL WITNESS POST, ABOUT 1 FOOT BELOW THE LEEL OF THE
LC0480'TRACK, AND SET IN THE TOP OF A CONCRETE POST WHICH PROJECTS 4
LC0480'INCHES ABOVE THE SURFACE OF THE GROUND.
LC0480'
LC0480'AIRLINE DISTANCE AND DIRECTION FROM NEAREST TOWN--4.7 MILES
LC0480'NORTH
LC0480
LC0480 STATION RECOVERY (1969)
LC0480
LC0480'RECOVERY NOTE BY COAST AND GEODETIC SURVEY 1969
LC0480'4.7 MI N FROM CLINTON.
LC0480'ABOUT 4.7 MILES NORTH ALONG THE ILLINOIS CENTRAL RAILROAD FROM THE
LC0480'STATION AT CLINTON, 138 YARDS NORTHWEST OF THE NORTHWEST CORNER
LC0480'OF THE POST OFFICE AT WAPELLA, 6 1/2 RAILS NORTH OF THE CENTER OF
LC0480'A CROSSING OF THE RAILROAD AND MAIN STREET, 265 FEET SOUTH OF MILEPOST
LC0480'778, 100 FEET WEST OF THE CENTER LINE OF A PAVED STREET, 30 FEET
LC0480'EAST OF THE EAST RAIL OF THE MAIN TRACK, 139.50 FEET NORTHWEST
LC0480'OF WAPELLA RM 2 ECC, 116.84 FEET SOUTHWEST OF WAPELLA RM 1 ECC,
LC0480'221.74 FEET NORTH OF WAPELLA 1920, 220.00 FEET NORTHWEST OF RM
LC0480'WAPELLA, 1.5 FEET WEST OF A METAL WITNESS POST, ABOUT 1 1/2 FEET
LC0480'BELOW THE LEVEL OF THE TRACK, AND SET IN THE TOP OF A CONCRETE POST
LC0480'WHICH PROJECTS 5 INCHES ABOVE THE SURFACE OF THE GROUND. SEC 3, T
LC0480'20N, R 2E
LC0480
LC0480 STATION RECOVERY (1973)
LC0480
LC0480'RECOVERY NOTE BY ILLINOIS DEPARTMENT OF TRANSPORTATION 1973 (LEM)
LC0480'WAPELLA EU 1934-(AZIMUTH MARK) GOOD
LC0480'
LC0480'WAPELLA ECC 1934-GOOD
LC0480'
LC0480'WAPELLA NO. 1 1934-GOOD
LC0480'
LC0480'WAPELLA ECC NO 2 1934-GOOD
LC0480
LC0480 STATION RECOVERY (1976)
LC0480
LC0480'RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1976 (LHW)
LC0480'WAPELLA ECC, REFERENCE MARKS 1 AND 2 AND AZIMUTH MARK WERE RECOVERED

LC0480'AND FOUND TO BE IN GOOD CONDITION. THE STATION MARK AND REFERENCE
LC0480'MARK 1 HAVE BEEN CHIPPED BUT APPEAR TO BE SOLID.
LC0480'
LC0480'THE STATION MARK IS 65 FEET NORTHWEST OF A TELEPHONE POLE, 61 FEET
LC0480'SOUTHWEST OF A TELEPHONE POLE, 30 FEET EAST OF THE EAST RAIL OF THE
LC0480'TRACKS AND PROJECTS 8 INCHES.
LC0480'
LC0480'REFERENCE MARK 1 IS 105 FEET EAST OF THE EAST RAIL OF THE TRACK, 72
LC0480'FEET SOUTH OF THE SOUTHEAST CORNER OF A BRICK SCALE HOUSE, 25 FEET
LC0480'WEST OF THE CENTER OF OAK STREET AND 1.5 FEET NORTH OF A WITNESS
LC0480'POST. IT PROJECTS 6 INCHES.
LC0480'
LC0480'REFERENCE MARK 2 IS 78 FEET NORTHWEST OF A TELEPHONE POLE, 24 FEET
LC0480'WEST OF THE CENTER OF OAK STREET, 10 FEET SOUTH OF A 48 INCH
LC0480'COTTONWOOD TREE AND 2 FEET NORTH OF A WITNESS POST. IT PROJECTS 2
LC0480'INCHES.
LC0480'
LC0480'STATION IS ON THE NORTH SIDE OF THE MAIN STREET IN WAPELLA.
LC0480'
LC0480'STATION WAPELLA 1920 AND REFERENCE MARK 1920 WERE NOT RECOVERED. THE
LC0480'SIDEWALK HAS BEEN REMOVED WHERE THE STATION WAS.
LC0480'
LC0480'AIRLINE DISTANCE AND DIRECTION FROM NEAREST TOWN--AT WAPELLA.
LC0480
LC0480 STATION RECOVERY (1976)
LC0480
LC0480'RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1976
LC0480'RECOVERED IN GOOD CONDITION.
LC0480
LC0480 STATION RECOVERY (1997)
LC0480
LC0480'RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1997 (RKB)
LC0480'THE STATION IS LOCATED IN WAPELLA, IN AN OPEN RECTANGULAR FIELD FORMED
LC0480'BY RAILROAD TRACKS, NORTH FIRST STREET, MAIN STREET, AND OAK STREET.
LC0480'TO REACH FROM THE INTERSECTION OF THE NORTHBOUND LANES OF U.S. HIGHWAY
LC0480'51 (WALNUT STREET) AND NORTH FIRST STREET, WHICH IS THE FIRST STREET
LC0480'SOUTH OF THE GRAIN ELEVATOR IN WAPELLA, GO EAST ON NORTH FIRST STREET
LC0480'FOR 0.1 MI (0.2 KM) TO A DOUBLE SET OF RAILROAD TRACKS. TURN RIGHT,
LC0480'SOUTH, ONTO TRACK ROAD ALONG EAST SIDE OF TRACKS, IMMEDIATELY AFTER
LC0480'CROSSING TRACKS, FOR 62 M (203.4 FT) TO THE STATION ON THE LEFT. IT
LC0480'IS 9.0 M (29.5 FT) EAST OF THE EAST RAIL OF THE EAST SET OF TRACKS,
LC0480'30.6 M (100.4 FT) WEST OF THE CENTER OF OAK STREET, 62.0 M (203.4 FT)
LC0480'SOUTH OF THE CENTER OF NORTH FIRST STREET, 77.5 M (254.3 FT) NORTH OF
LC0480'THE CENTER OF MAIN STREET, AT A SHORT METAL WITNESS POST, AND 0.3 M
LC0480'(1.0 FT) EAST OF A FIBERGLASS WITNESS POST.
LC0480
LC0480 STATION RECOVERY (2000)
LC0480
LC0480'RECOVERY NOTE BY ZAMBRANA ENGINEERING, INCORPORATED 2000 (NRB)
LC0480'RECOVERY NOTE BY ZAMBRANA ENGINEERING, INC 2000 (NRB) STATION
LC0480'RECOVERED AS DESCRIBED IN GOOD CONDITION.
LC0480
LC0480 STATION RECOVERY (2001)
LC0480

LC0480'RECOVERY NOTE BY WOOLPERT CONSULTANTS 2001 (ARL)
LC0480'RECOVERED AS DESCRIBED.
LC0480
LC0480 STATION RECOVERY (2002)
LC0480
LC0480'RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 2002 (VP)
LC0480'RECOVERED AS DESCRIBED
LC0480
LC0480 STATION RECOVERY (2004)
LC0480
LC0480'RECOVERY NOTE BY ILLINOIS DEPARTMENT OF TRANSPORTATION 2004 (SWR)
LC0480'RECOVERED IN GOOD CONDITION.
LC0480
LC0480 STATION RECOVERY (2013)
LC0480
LC0480'RECOVERY NOTE BY ILLINOIS GEODETIC SURVEY 2013 (MEB)
LC0480'RECOVERED IN GOOD CONDITION.
LC0480
LC0480 STATION RECOVERY (2014)
LC0480
LC0480'RECOVERY NOTE BY AMERICAN SURVEYING AND ENGINEERING PC 2014 (PFS)
LC0480'RECOVERED AS DESCRIBED.
LC0480
LC0480 STATION RECOVERY (2016)
LC0480
LC0480'RECOVERY NOTE BY COMPASSDATA INC 2016 (NK)
LC0480'RECOVERED IN GOOD CONDITION.

*** retrieval complete.
Elapsed Time = 00:00:04

DATASHEETS Data Sheet Retrieval
The NGS Data Sheet

See file dsdata.pdf for more information about the datasheet.
PROGRAM = datasheet95, VERSION = 8.12.5.14
Starting Datasheet Retrieval...
1 National Geodetic Survey, Retrieval Date = APRIL 21, 2022
LD0420 ***
LD0420 FBN - This is a Federal Base Network Control Station.
LD0420 DESIGNATION - Y 33
LD0420 PID - LD0420
LD0420 STATE/COUNTY- IL/MCDONOUGH
LD0420 COUNTRY - US
LD0420 USGS QUAD - GOOD HOPE (2018)
LD0420
LD0420 *CURRENT SURVEY CONTROL
LD0420 _____
LD0420* NAD 83(2011) POSITION- 40 33 25.70200(N) 090 41 36.34800(W) ADJUSTED
LD0420* NAD 83(2011) ELLIP HT- 183.529 (meters) (06/27/12) ADJUSTED
LD0420* NAD 83(2011) EPOCH - 2010.00
LD0420* NAVD 88 ORTHO HEIGHT - 216.848 (meters) 711.44 (feet) ADJUSTED
LD0420 _____
LD0420 GEOID HEIGHT - -33.301 (meters) GEOID18
LD0420 NAD 83(2011) X - -58,730.863 (meters) COMP
LD0420 NAD 83(2011) Y - -4,852,495.944 (meters) COMP
LD0420 NAD 83(2011) Z - 4,125,301.970 (meters) COMP
LD0420 LAPLACE CORR - -0.01 (seconds) DEFLEC18
LD0420 DYNAMIC HEIGHT - 216.740 (meters) 711.09 (feet) COMP
LD0420 MODELED GRAVITY - 980,122.4 (mgal) NAVD 88
LD0420
LD0420 VERT ORDER - SECOND CLASS 0
LD0420
LD0420 Network accuracy estimates per FGDC Geospatial Positioning Accuracy
LD0420 Standards:
LD0420 FGDC (95% conf, cm) Standard deviation (cm) CorrNE
LD0420 Horiz Ellip SD_N SD_E SD_h (unitless)
LD0420 ----------
LD0420 NETWORK 0.40 0.71 0.18 0.14 0.36 -0.02053247
LD0420 ----------
LD0420 Click here for local accuracies and other accuracy information.
LD0420
LD0420
LD0420.The horizontal coordinates were established by GPS observations
LD0420.and adjusted by the National Geodetic Survey in June 2012.
LD0420
LD0420.NAD 83(2011) refers to NAD 83 coordinates where the reference frame has
LD0420.been affixed to the stable North American tectonic plate. See
LD0420.NA2011 for more information.
LD0420
LD0420.The horizontal coordinates are valid at the epoch date displayed above
LD0420.which is a decimal equivalence of Year/Month/Day.
LD0420
LD0420.The orthometric height was determined by differential leveling and

LD0420.adjusted by the NATIONAL GEODETIC SURVEY
LD0420.in June 1991.
LD0420
LD0420.Significant digits in the geoid height do not necessarily reflect accuracy.
LD0420.GEOID18 height accuracy estimate available here.
LD0420
LD0420.Click photographs - Photos may exist for this station.
LD0420
LD0420.The X, Y, and Z were computed from the position and the ellipsoidal ht.
LD0420
LD0420.The Laplace correction was computed from DEFLEC18 derived deflections.
LD0420
LD0420.The ellipsoidal height was determined by GPS observations
LD0420.and is referenced to NAD 83.
LD0420
LD0420.The dynamic height is computed by dividing the NAVD 88
LD0420.geopotential number by the normal gravity value computed on the
LD0420.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
LD0420.degrees latitude (g = 980.6199 gals.).
LD0420
LD0420.The modeled gravity was interpolated from observed gravity values.
LD0420
LD0420. The following values were computed from the NAD 83(2011) position.
LD0420
LD0420;   North   East   Units Scale Factor Converg.
LD0420;SPC IL W   -   431,982.262   655,387.884   MT 0.99996567   -0 20 33.0
LD0420;SPC IL W   - 1,417,261.80 2,150,218.42   sFT 0.99996567   -0 20 33.0
LD0420;UTM 15   - 4,492,153.848   695,286.905   MT 1.00006945   +1 30 00.8
LD0420
LD0420!   - Elev Factor x Scale Factor =   Combined Factor
LD0420!SPC IL W   -   0.99997121 x   0.99996567 =   0.99993688
LD0420!UTM 15   -   0.99997121 x   1.00006945 =   1.00004066
LD0420
LD0420_U.S. NATIONAL GRID SPATIAL ADDRESS: 15TXE9528692153(NAD 83)
LD0420
LD0420   SUPERSEDED SURVEY CONTROL
LD0420
LD0420 NAD 83(2007)- 40 33 25.70209(N)   090 41 36.34856(W) AD(2002.00) 0
LD0420 ELLIP H (02/10/07) 183.569 (m)   GP(2002.00)
LD0420 ELLIP H (09/15/03) 183.580 (m)   GP(   ) 4 1
LD0420 ELLIP H (07/28/03) 183.598 (m)   GP(   ) 4 1
LD0420 NAD 83(1997)- 40 33 25.70178(N)   090 41 36.34842(W) AD(   ) B
LD0420 ELLIP H (07/17/98) 183.580 (m)   GP(   ) 4 1
LD0420 NAD 83(1986)- 40 33 25.70928(N)   090 41 36.34981(W) AD(   ) 1
LD0420 NAVD 88   216.85   (m)   711.4   (f) LEVELING   3
LD0420 NGVD 29 (??/??/92) 216.909 (m)   711.64   (f) ADJ UNCH   2 0
LD0420 NGVD 29   216.91   (m)   711.6   (f) LEVELING   3
LD0420
LD0420.Superseded values are not recommended for survey control.
LD0420
LD0420.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.
LD0420.See file dsdata.pdf to determine how the superseded data were derived.
LD0420
LD0420_MARKER: DB = BENCH MARK DISK

LD0420_SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT
LD0420_STAMPING: Y 33 1934
LD0420_MARK LOGO: CGS
LD0420_MAGNETIC: N = NO MAGNETIC MATERIAL
LD0420_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO
LD0420+STABILITY: SURFACE MOTION
LD0420_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
LD0420+SATELLITE: SATELLITE OBSERVATIONS - May 01, 2010
LD0420
LD0420 HISTORY - Date Condition Report By
LD0420 HISTORY - 1934 MONUMENTED CGS
LD0420 HISTORY - 19901003 GOOD NGS
LD0420 HISTORY - 19970423 GOOD NGS
LD0420 HISTORY - 19980722 GOOD ILDT
LD0420 HISTORY - 20020820 GOOD NGS
LD0420 HISTORY - 20030205 GOOD ILDT
LD0420 HISTORY - 20030722 GOOD ILDT
LD0420 HISTORY - 20100501 GOOD ILDT
LD0420
LD0420 STATION DESCRIPTION
LD0420
LD0420'DESCRIBED BY COAST AND GEODETIC SURVEY 1934
LD0420'0.9 MI W FROM GOOD HOPE.
LD0420'0.9 MILE WEST ALONG THE TOLEDO, PEORIA AND WESTERN RAILROAD FROM
LD0420'THE STATION AT GOOD HOPE, MCDONOUGH COUNTY, 18 POLES EAST OF
LD0420'MILEPOST 181, 54 FEET NORTH OF A POINT 42 FEET WEST OF THE CENTER
LD0420'OF A ROAD CROSSING, AT THE SOUTHEAST CORNER OF AN ABANDONED
LD0420'SCHOOLYARD, AND LEVEL WITH THE TRACK. A STANDARD DISK, STAMPED
LD0420'Y 33 1934 AND SET IN THE TOP OF A CONCRETE POST.
LD0420
LD0420 STATION RECOVERY (1990)
LD0420
LD0420'RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1990
LD0420'STATION IS LOCATED ABOUT 11 KM (6.8 MI) NORTH OF MACOMB, 1.6 KM
LD0420'(1.0 MI) WEST OF GOOD HOPE, AT THE SOUTHEAST CORNER OF A YARD OF
LD0420'PRIVATE RESIDENCE, IN THE NORTHWEST ANGLE OF JUNCTION OF RAILROAD
LD0420'TRACK AND A PAVED ROAD, ON THE EDGE OF THE RAILROAD RIGHT-OF-WAY,
LD0420'NEAR THE NORTHEAST CORNER OF SECTION 35, T 17 N, R 3 W.
LD0420'OWNERSHIP--TOLEDO, PEORIA AND WESTERN RAILROAD.
LD0420'TO REACH FROM THE JUNCTION OF US HIGHWAY 67 AND STATE HIGHWAY 9 (ABOUT
LD0420'0.8 KM (0.5 MI) SOUTH OF GOOD HOPE), GO WEST ON HIGHWAY 9 FOR 1.66 KM
LD0420'(1.03 MI) TO AN OFFSET PAVED CROSSROAD. TURN RIGHT, NORTH, FOR 0.69
LD0420'KM (0.43 MI) TO THE RAILROAD TRACK AND THE STATION ON THE LEFT.
LD0420'STATION MARK IS SET IN THE TOP OF A 15-CM SQUARE CONCRETE POST
LD0420'PROJECTING 20 CM. IT IS 15.2 M (49.9 FT) NORTH OF, AND LEVEL WITH
LD0420'THE NORTH RAIL, 13.1 M (43.0 FT) WEST OF THE ROAD CENTER, AND 0.2 M
LD0420'(0.7 FT) EAST OF A FIBERGLASS WITNESS POST.
LD0420
LD0420 STATION RECOVERY (1997)
LD0420
LD0420'RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1997 (RKB)
LD0420'THE STATION IS LOCATED ABOUT 6.8 MI (10.9 KM) NORTH OF MACOMB, 1.0 MI
LD0420'(1.6 KM) WEST OF GOOD HOPE, AT THE SOUTHEAST CORNER OF A YARD OF
LD0420'PRIVATE RESIDENCE, IN THE NORTHWEST ANGLE OF THE JUNCTION OF A

LD0420'RAILROAD TRACK AND A PAVED ROAD, ON THE EDGE OF RAILROAD RIGHT-OF-WAY.
LD0420'TO REACH FROM THE JUNCTION OF U.S. HIGHWAY 67 AND STATE ROUTE 9, ABOUT
LD0420'0.5 MI (0.8 KM) SOUTH OF GOOD HOPE, GO WEST ON ROUTE 9 FOR 1.0 MI (1.6
LD0420'KM) TO AN OFFSET CROSSROAD. TURN RIGHT, NORTH, FOR 0.43 MI (0.69 KM)
LD0420'TO A RAILROAD CROSSING AND THE STATION ON THE LEFT. IT IS 15.2 M
LD0420'(49.9 FT) NORTH OF AND LEVEL WITH THE NORTH RAIL, 13.1 M (43.0 FT)
LD0420'WEST OF THE CENTER OF THE ROAD, AND 0.2 M (0.7 FT) EAST OF A
LD0420'FIBERGLASS WITNESS POST.
LD0420
LD0420 STATION RECOVERY (1998)
LD0420
LD0420'RECOVERY NOTE BY ILLINOIS DEPARTMENT OF TRANSPORTATION 1998 (GW)
LD0420'RECOVERED AS DESCRIBED
LD0420
LD0420 STATION RECOVERY (2002)
LD0420
LD0420'RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 2002 (CLC)
LD0420'RECOVERED AS DESCRIBED
LD0420'
LD0420
LD0420 STATION RECOVERY (2003)
LD0420
LD0420'RECOVERY NOTE BY ILLINOIS DEPARTMENT OF TRANSPORTATION 2003 (CLW)
LD0420'RECOVERED AS DESCRIBED.
LD0420'
LD0420
LD0420 STATION RECOVERY (2003)
LD0420
LD0420'RECOVERY NOTE BY ILLINOIS DEPARTMENT OF TRANSPORTATION 2003 (CLW)
LD0420'RECOVERED AS DESCRIBED.
LD0420
LD0420 STATION RECOVERY (2010)
LD0420
LD0420'RECOVERY NOTE BY ILLINOIS DEPARTMENT OF TRANSPORTATION 2010 (CW)
LD0420'RECOVERED AS DESCRIBED

*** retrieval complete.
Elapsed Time = 00:00:04

DATASHEETS Data Sheet Retrieval
The NGS Data Sheet

See file dsdata.pdf for more information about the datasheet.
PROGRAM = datasheet95, VERSION = 8.12.5.14
Starting Datasheet Retrieval...
1 National Geodetic Survey, Retrieval Date = APRIL 21, 2022
LD0077 ***
LD0077 DESIGNATION - Y 43
LD0077 PID - LD0077
LD0077 STATE/COUNTY- IL/FULTON
LD0077 COUNTRY - US
LD0077 USGS QUAD - FARMINGTON WEST (2018)
LD0077
LD0077 *CURRENT SURVEY CONTROL
LD0077 _____
LD0077* NAD 83(2011) POSITION- 40 40 22.06923(N) 090 02 06.48641(W) ADJUSTED
LD0077* NAD 83(2011) ELLIP HT- 197.607 (meters) (06/27/12) ADJUSTED
LD0077* NAD 83(2011) EPOCH - 2010.00
LD0077* NAVD 88 ORTHO HEIGHT - 230.709 (meters) 756.92 (feet) ADJUSTED
LD0077 _____
LD0077 GEOID HEIGHT - -33.115 (meters) GEOID18
LD0077 NAD 83(2011) X - -2,970.761 (meters) COMP
LD0077 NAD 83(2011) Y - -4,844,500.197 (meters) COMP
LD0077 NAD 83(2011) Z - 4,135,060.839 (meters) COMP
LD0077 LAPLACE CORR - 1.21 (seconds) DEFLEC18
LD0077 DYNAMIC HEIGHT - 230.599 (meters) 756.56 (feet) COMP
LD0077 MODELED GRAVITY - 980,142.3 (mgal) NAVD 88
LD0077
LD0077 VERT ORDER - SECOND CLASS 0
LD0077
LD0077 Network accuracy estimates per FGDC Geospatial Positioning Accuracy
LD0077 Standards:
LD0077 FGDC (95% conf, cm) Standard deviation (cm) CorrNE
LD0077 Horiz Ellip SD_N SD_E SD_h (unitless)
LD0077 ----------
LD0077 NETWORK 2.38 1.78 1.09 0.81 0.91 -0.01991646
LD0077 ----------
LD0077 Click here for local accuracies and other accuracy information.
LD0077
LD0077
LD0077.The horizontal coordinates were established by GPS observations
LD0077.and adjusted by the National Geodetic Survey in June 2012.
LD0077
LD0077.NAD 83(2011) refers to NAD 83 coordinates where the reference frame has
LD0077.been affixed to the stable North American tectonic plate. See
LD0077.NA2011 for more information.
LD0077
LD0077.The horizontal coordinates are valid at the epoch date displayed above
LD0077.which is a decimal equivalence of Year/Month/Day.
LD0077
LD0077.The orthometric height was determined by differential leveling and
LD0077.adjusted by the NATIONAL GEODETIC SURVEY

LD0077.in June 1991.
LD0077
LD0077.Significant digits in the geoid height do not necessarily reflect accuracy.
LD0077.GEOID18 height accuracy estimate available here.
LD0077
LD0077.Click photographs - Photos may exist for this station.
LD0077
LD0077.The X, Y, and Z were computed from the position and the ellipsoidal ht.
LD0077
LD0077.The Laplace correction was computed from DEFLEC18 derived deflections.
LD0077
LD0077.The ellipsoidal height was determined by GPS observations
LD0077.and is referenced to NAD 83.
LD0077
LD0077.The dynamic height is computed by dividing the NAVD 88
LD0077.geopotential number by the normal gravity value computed on the
LD0077.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
LD0077.degrees latitude (g = 980.6199 gals.).
LD0077
LD0077.The modeled gravity was interpolated from observed gravity values.
LD0077
LD0077. The following values were computed from the NAD 83(2011) position.
LD0077
LD0077;   North   East   Units Scale Factor Converg.
LD0077;SPC IL W   -   444,699.846   711,120.324   MT 0.99994270   +0 05 08.6
LD0077;SPC IL W   - 1,458,986.08 2,333,067.26   sFT 0.99994270   +0 05 08.6
LD0077;UTM 15   - 4,506,663.209   750,595.734   MT 1.00037304   +1 55 60.0
LD0077;UTM 16   - 4,506,866.105   243,464.065   MT 1.00041012   -1 58 45.1
LD0077
LD0077!   - Elev Factor x Scale Factor =   Combined Factor
LD0077!SPC IL W   -   0.99996900 x   0.99994270 =   0.99991170
LD0077!UTM 15   -   0.99996900 x   1.00037304 =   1.00034203
LD0077!UTM 16   -   0.99996900 x   1.00041012 =   1.00037911
LD0077
LD0077_U.S. NATIONAL GRID SPATIAL ADDRESS: 15TYF5059506663(NAD 83)
LD0077
LD0077   SUPERSEDED SURVEY CONTROL
LD0077
LD0077 NAD 83(2007)- 40 40 22.06940(N)   090 02 06.48744(W) AD(2002.00) 1
LD0077 ELLIP H (08/11/11) 197.627 (m)   GP(2002.00) 4 1
LD0077 NAVD 88   230.71   (m)   756.9   (f) LEVELING   3
LD0077 NGVD 29 (??/??/92) 230.785 (m)   757.17   (f) ADJ UNCH   2 0
LD0077
LD0077.Superseded values are not recommended for survey control.
LD0077
LD0077.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.
LD0077.See file dsdata.pdf to determine how the superseded data were derived.
LD0077
LD0077_MARKER: DB = BENCH MARK DISK
LD0077_SETTING: 7 = SET IN TOP OF CONCRETE MONUMENT
LD0077_STAMPING: Y 43 1935
LD0077_MARK LOGO: CGS
LD0077_STABILITY: C = MAY HOLD, BUT OF TYPE COMMONLY SUBJECT TO
LD0077+STABILITY: SURFACE MOTION

LD0077_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
LD0077+SATELLITE: SATELLITE OBSERVATIONS - May 06, 2009
LD0077
LD0077 HISTORY   - Date   Condition   Report By
LD0077 HISTORY   - 1935   MONUMENTED   CGS
LD0077 HISTORY   - 1942   GOOD   CGS
LD0077 HISTORY   - 20001205 GOOD   CMT
LD0077 HISTORY   - 20090506 GOOD   IL-057
LD0077
LD0077   STATION DESCRIPTION
LD0077
LD0077'DESCRIBED BY COAST AND GEODETIC SURVEY 1942
LD0077'3.6 MI N FROM NORRIS.
LD0077'3.6 MILES NORTH ALONG THE CHICAGO, BURLINGTON AND QUINCY RAILROAD
LD0077'FROM THE STATION AT NORRIS, FULTON COUNTY, 10 POLES NORTHEAST OF
LD0077'MILEPOST 55, 195 FEET SOUTHWEST OF THE CENTER OF A ROAD CROSSING,
LD0077'30 FEET SOUTHEAST OF THE CENTERLINE OF THE TRACK, 5 FEET NORTHWEST
LD0077'OF THE RIGHT-OF-WAY FENCE, AND 3 FEET LOWER THAN THE TRACK. A
LD0077'STANDARD DISK, STAMPED Y 43 1935 AND SET IN THE TOP OF A CONCRETE
LD0077'POST.
LD0077
LD0077   STATION RECOVERY (2000)
LD0077
LD0077'RECOVERY NOTE BY CRAWFORD MURPHY AND TILLY INC 2000 (KWS)
LD0077'RECOVERED IN GOOD CONDITION.
LD0077
LD0077   STATION RECOVERY (2009)
LD0077
LD0077'RECOVERY NOTE BY FULTON COUNTY ILLINOIS 2009 (DEW)
LD0077'RECOVERED AS DESCRIBED

*** retrieval complete.
Elapsed Time = 00:00:04

DATASHEETS Data Sheet Retrieval
The NGS Data Sheet

See file dsdata.pdf for more information about the datasheet.
PROGRAM = datasheet95, VERSION = 8.12.5.14
Starting Datasheet Retrieval...
1 National Geodetic Survey, Retrieval Date = APRIL 21, 2022
LC1674 ***
LC1674 DESIGNATION - Y 296
LC1674 PID - LC1674
LC1674 STATE/COUNTY- IL/PIATT
LC1674 COUNTRY - US
LC1674 USGS QUAD - MANSFIELD (2018)
LC1674
LC1674 *CURRENT SURVEY CONTROL
LC1674 _____
LC1674* NAD 83(2011) POSITION- 40 14 11.38228(N) 088 36 29.06464(W) ADJUSTED
LC1674* NAD 83(2011) ELLIP HT- 184.693 (meters) (06/27/12) ADJUSTED
LC1674* NAD 83(2011) EPOCH - 2010.00
LC1674* NAVD 88 ORTHO HEIGHT - 216.627 (meters) 710.72 (feet) ADJUSTED
LC1674 _____
LC1674 GEOID HEIGHT - -31.924 (meters) GEOID18
LC1674 NAD 83(2011) X - 118,442.675 (meters) COMP
LC1674 NAD 83(2011) Y - -4,874,488.950 (meters) COMP
LC1674 NAD 83(2011) Z - 4,098,186.064 (meters) COMP
LC1674 LAPLACE CORR - -0.98 (seconds) DEFLEC18
LC1674 DYNAMIC HEIGHT - 216.522 (meters) 710.37 (feet) COMP
LC1674 MODELED GRAVITY - 980,135.4 (mgal) NAVD 88
LC1674
LC1674 VERT ORDER - FIRST CLASS II
LC1674
LC1674 Network accuracy estimates per FGDC Geospatial Positioning Accuracy
LC1674 Standards:
LC1674 FGDC (95% conf, cm) Standard deviation (cm) CorrNE
LC1674 Horiz Ellip SD_N SD_E SD_h (unitless)
LC1674 ----------
LC1674 NETWORK 3.66 4.55 1.62 1.35 2.32 0.08566768
LC1674 ----------
LC1674 Click here for local accuracies and other accuracy information.
LC1674
LC1674
LC1674.The horizontal coordinates were established by GPS observations
LC1674.and adjusted by the National Geodetic Survey in June 2012.
LC1674
LC1674.NAD 83(2011) refers to NAD 83 coordinates where the reference frame has
LC1674.been affixed to the stable North American tectonic plate. See
LC1674.NA2011 for more information.
LC1674
LC1674.The horizontal coordinates are valid at the epoch date displayed above
LC1674.which is a decimal equivalence of Year/Month/Day.
LC1674
LC1674.The orthometric height was determined by differential leveling and
LC1674.adjusted by the NATIONAL GEODETIC SURVEY

LC1674.in June 1991.
LC1674
LC1674.Significant digits in the geoid height do not necessarily reflect accuracy.
LC1674.GEOID18 height accuracy estimate available here.
LC1674
LC1674.Click photographs - Photos may exist for this station.
LC1674
LC1674.The X, Y, and Z were computed from the position and the ellipsoidal ht.
LC1674
LC1674.The Laplace correction was computed from DEFLEC18 derived deflections.
LC1674
LC1674.The ellipsoidal height was determined by GPS observations
LC1674.and is referenced to NAD 83.
LC1674
LC1674.The dynamic height is computed by dividing the NAVD 88
LC1674.geopotential number by the normal gravity value computed on the
LC1674.Geodetic Reference System of 1980 (GRS 80) ellipsoid at 45
LC1674.degrees latitude (g = 980.6199 gals.).
LC1674
LC1674.The modeled gravity was interpolated from observed gravity values.
LC1674
LC1674. The following values were computed from the NAD 83(2011) position.
LC1674
LC1674; North East Units Scale Factor Converg.
LC1674;SPC IL E - 396,295.546 276,620.584 MT 0.99998173 -0 10 38.9
LC1674;SPC IL E - 1,300,179.64 907,546.03 sFT 0.99998173 -0 10 38.9
LC1674;UTM 16 - 4,455,246.546 363,207.031 MT 0.99983035 -1 02 20.0
LC1674
LC1674! - Elev Factor x Scale Factor = Combined Factor
LC1674!SPC IL E - 0.99997103 x 0.99998173 = 0.99995276
LC1674!UTM 16 - 0.99997103 x 0.99983035 = 0.99980138
LC1674
LC1674_U.S. NATIONAL GRID SPATIAL ADDRESS: 16TCK6320755246(NAD 83)
LC1674
LC1674 SUPERSEDED SURVEY CONTROL
LC1674
LC1674 NAD 83(2007)- 40 14 11.38243(N) 088 36 29.06502(W) AD(2002.00) 0
LC1674 ELLIP H (02/10/07) 184.727 (m) GP(2002.00)
LC1674 ELLIP H (12/06/04) 184.730 (m) GP( ) 4 1
LC1674 NAD 83(1997)- 40 14 11.38246(N) 088 36 29.06494(W) AD( ) 1
LC1674 ELLIP H (12/18/02) 184.723 (m) GP( ) 4 2
LC1674 NAVD 88 216.63 (m) 710.7 (f) LEVELING 3
LC1674
LC1674.Superseded values are not recommended for survey control.
LC1674
LC1674.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.
LC1674.See file dsdata.pdf to determine how the superseded data were derived.
LC1674
LC1674_MARKER: I = METAL ROD
LC1674_SETTING: 49 = STAINLESS STEEL ROD W/O SLEEVE (10 FT.+)
LC1674_STAMPING: Y 296 1986
LC1674_MARK LOGO: NGS
LC1674_PROJECTION: FLUSH
LC1674_MAGNETIC: N = NO MAGNETIC MATERIAL

LC1674_STABILITY: B = PROBABLY HOLD POSITION/ELEVATION WELL
LC1674_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR
LC1674+SATELLITE: SATELLITE OBSERVATIONS - June 02, 2003
LC1674_ROD/PIPE-DEPTH: 7.80 meters
LC1674
LC1674 HISTORY   - Date   Condition   Report By
LC1674 HISTORY   - 1986   MONUMENTED   NGS
LC1674 HISTORY   - 20001229 GOOD   ZAMBRA
LC1674 HISTORY   - 20030602 GOOD   BCA
LC1674
LC1674   STATION DESCRIPTION
LC1674
LC1674'DESCRIBED BY NATIONAL GEODETIC SURVEY 1986
LC1674'2.1 KM (1.3 MI) SE FROM FARMER CITY.
LC1674'2.1 KM (1.3 MI) SOUTHEASTERLY ALONG U.S. HIGHWAY 150 FROM ITS JUNCTION
LC1674'WITH STATE HIGHWAY 54 IN FARMER CITY, 29.6 M (97.1 FT) SOUTHWEST OF
LC1674'THE CENTERLINE OF THE HIGHWAY, 4.9 M (16.1 FT) SOUTHWEST OF THE NEAR
LC1674'RAIL OF THE CONRAIL RAILROAD, 4.7 M (15.4 FT) SOUTHEAST OF THE CENTER
LC1674'OF A NARROW ASPHALT ROAD, AND 0.7 M (2.3 FT) SOUTHEAST OF A RAILROAD
LC1674'CROSSING SIGN POST. NOTE--ACCESS TO DATUM POINT IS HAD THROUGH A
LC1674'5-INCH LOGO CAP.
LC1674'THE MARK IS 0.2 METERS WNW FROM A WITNESS POST
LC1674'THE MARK IS 0.3 M BELOW THE TRACKS.
LC1674
LC1674   STATION RECOVERY (2000)
LC1674
LC1674'RECOVERY NOTE BY ZAMBRANA ENGINEERING, INCORPORATED 2000 (NRB)
LC1674'RECOVERY NOTE BY ZAMBRANA ENGINEERING, INC 2000 (NRB) STATION
LC1674'RECOVERED AS DESCRIBED IN GOOD CONDITION.
LC1674'
LC1674
LC1674   STATION RECOVERY (2003)
LC1674
LC1674'RECOVERY NOTE BY BERNS CLANCY AND ASSOCIATES 2003 (DGW)
LC1674'RECOVERED IN GOOD CONDITION.

*** retrieval complete.
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