**JAC-327-1358 OPUS CP01**

**IRON PIN & CAP SET**

**PID: 110561**

FILE: 87101436.DAT OP1653388502048

2005 NOTE: The IGS precise and IGS rapid orbits were not available

2005 at processing time. The IGS ultra-rapid orbit was/will be used to

2005 process the data.

2005

NGS OPUS SOLUTION REPORT

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

For additional information: <https://gcc02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fwww.ngs.noaa.gov%2FOPUS%2Fabout.jsp%23accuracy&amp;data=05%7C01%7Cjason.robinson%40dot.ohio.gov%7Cf8ea1ab199ca40d7dc3208da3d714419%7C50f8fcc494d84f0784eb36ed57c7c8a2%7C0%7C0%7C637889853925554957%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C3000%7C%7C%7C&amp;sdata=BMGZ8NCGh9XPMyNW3TpR%2FyqzNF84FlB31zynJJ1S2BE%3D&amp;reserved=0>

USER: [jason.robinson@dot.ohio.gov](mailto:jason.robinson@dot.ohio.gov) DATE: May 24, 2022

RINEX FILE: 8710143m.22o TIME: 10:36:12 UTC

SOFTWARE: page5 2008.25 master254.pl 160321 START: 2022/05/23 12:43:00

EPHEMERIS: igu22111.eph [ultra-rapid] STOP: 2022/05/23 16:24:00

NAV FILE: brdc1430.22n OBS USED: 5893 / 8083 : 73%

ANT NAME: TRM5800 NONE # FIXED AMB: 50 / 52 : 96%

ARP HEIGHT: 2.000 OVERALL RMS: 0.019(m)

REF FRAME: NAD\_83(2011)(EPOCH:2010.0000) ITRF2014 (EPOCH:2022.3907)

X: 639367.935(m) 0.005(m) 639366.999(m) 0.005(m)

Y: -4912020.464(m) 0.009(m) -4912019.045(m) 0.009(m)

Z: 4004807.305(m) 0.019(m) 4004807.228(m) 0.019(m)

LAT: 39 8 36.17660 0.008(m) 39 8 36.20594 0.008(m)

E LON: 277 24 58.13597 0.005(m) 277 24 58.10494 0.005(m)

W LON: 82 35 1.86403 0.005(m) 82 35 1.89506 0.005(m)

EL HGT: 209.625(m) 0.019(m) 208.391(m) 0.019(m)

ORTHO HGT: **798.84’** 243.486(m) 0.062(m) [NAVD88 (Computed using GEOID18)]

UTM COORDINATES STATE PLANE COORDINATES

UTM (Zone 17) SPC (3402 OH S)

Northing (Y) [meters] 4333882.497 126933.798 **Grid: 416,448.6356 Ground: 416,485.3622**

Easting (X) [meters] 363125.207 592751.364 **1,944,718.4330 1,944,889.9380**

Convergence [degrees] -0.99998333 -0.05320556

Point Scale 0.99983068 0.99994471

Combined Factor 0.99979780 0.99991182 **P.A.F. = 1.00008819**

US NATIONAL GRID DESIGNATOR: 17SLD6312533882(NAD 83)

BASE STATIONS USED

PID DESIGNATION LATITUDE LONGITUDE DISTANCE(m)

DF4048 GALP GALLIPOLIS CORS ARP N385039.148 W0821640.091 42499.4

AI4945 STKR STOCKER OHIO UNIV CORS ARP N391933.824 W0820625.629 45887.3

DR7394 OHRS OHRS ROSS COUNTY2 CORS ARP N392155.378 W0830116.472 45087.6

NEAREST NGS PUBLISHED CONTROL POINT

JY0417 786 N390928.000 W0823435.000 1723.4

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